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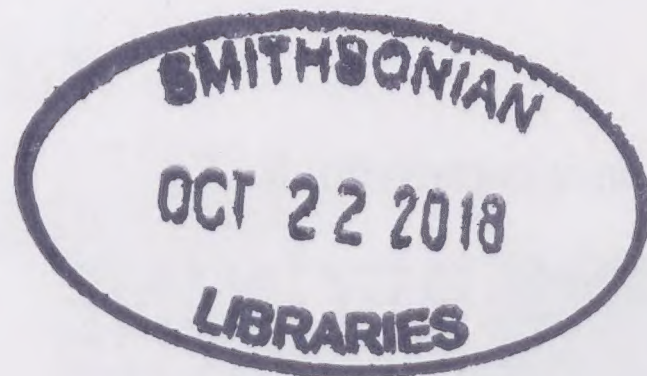
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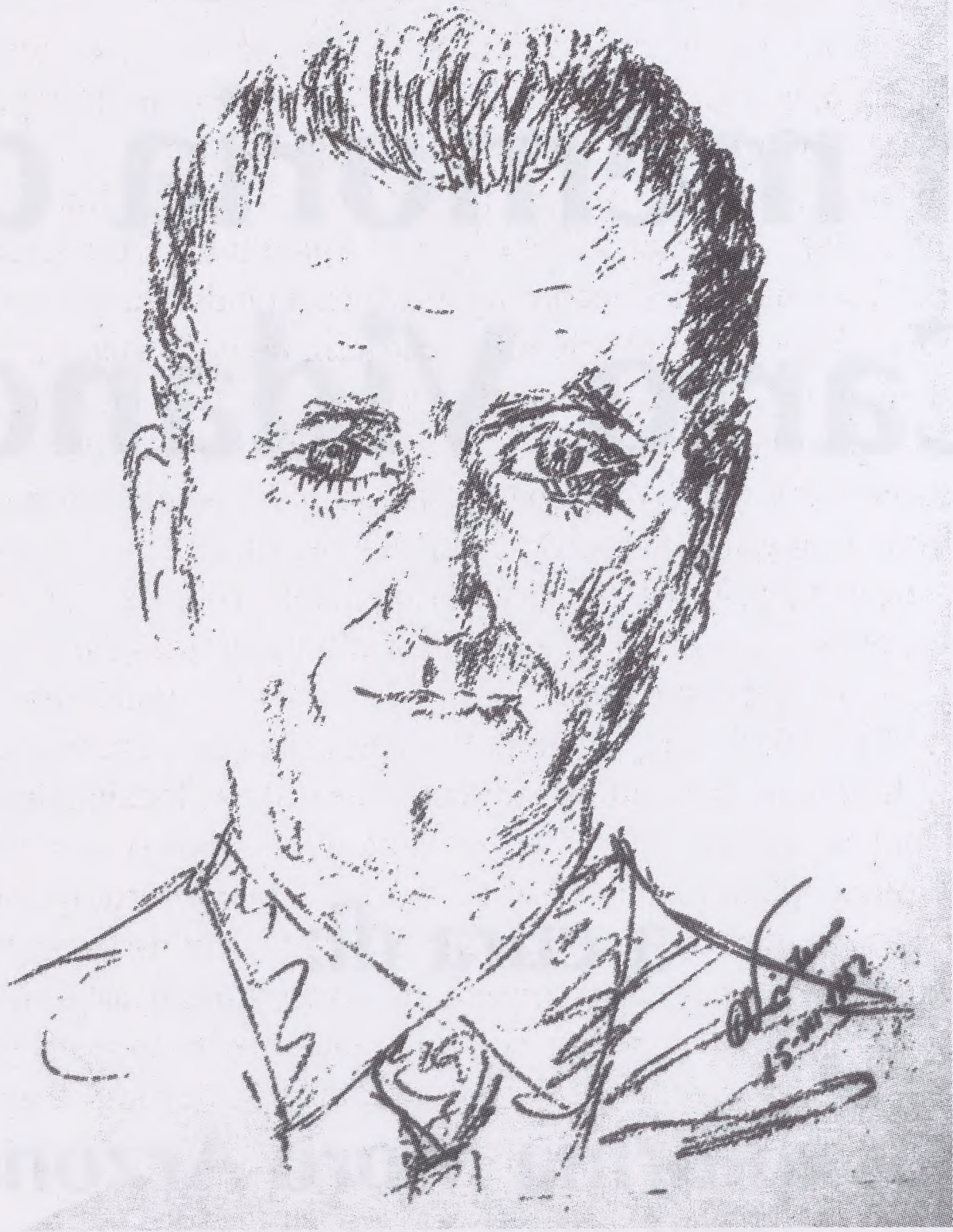
Volume in memoria di Carlo Vidano

a cura di:

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Vidano's self-portrait (Caluso 1923 - Torino 1989)

INTRODUCTION

Carlo Vidano began to be interested in Auchenorrhyncha as a student, during his attendance at the Institute of agricultural Entomology of the University of Turin, when he found a new pest on the plants of his father's orchard. It was the membracid *Stictoccephala bisonia* Kopp & Yonke (known at that time as *Ceresa bubalus* Fabricius), that was not yet reported for Italy, and Carlo Vidano made it the object of his degree thesis that he discussed on the 11th of November 1949 in the Faculty of Agriculture. Immediately after his graduation, being appointed Assistant Professor to the chair of agricultural Entomology, his interest was attracted by the subfamily Typhlocybinae (at that time fam. Typhlocybidae). He concentrated on this subfamily his research, that he always led with great keenness, a lot of passion and sacrifices, in the spare time he was granted to cut out from the academic engagements that fully absorbed him in problems of entomology applied to agriculture, i.e. on holidays and during the night.

The collections were made uninterruptedly from 1955 to 1968, the year in which Vidano was called as full professor to the Chair of Apiculture of the University of Turin. Coherent to his professional ethics according to which a chair had not to be honoured only with teaching but above all with scientific research, he dedicated himself intensely to pure and applied Apidology, until then neglected in Italian universities, and he elevated it to the rank of an important and respectful science. Therefore he interrupted his studies on his beloved leafhoppers and took them up again in 1978, when he returned to the Chair of agricultural Entomology, and pursued until 1989, the year of his premature passing. In his collections there is therefore a gap of approximately 10 years. The protocols of his collections - carried out systematically in all regions of Italy, besides those made sporadically in European and extra-European nations - are gathered in five notebooks and are marked as "Typhl." from 001 to 974. They include the main sites in a chronological order. For every locality the following data are given: date, host plant, localization of the plant in the environment and of the individuals on the plant, trophic behaviour, altitude, often the exposure, hour, biotope, plant biocenosis, occupied niche, meteorological conditions, insolation, shade, and any other biotic and abiotic element useful to know the ecologic and ethologic requirements of the species considered. Everything nearly always written using a black pencil. For further completion and for greater clarity, in many pages for several species there are sketches of edeagi, genital laminae, the pygofer and its appendages, wing nerves, and references to previous captures.

Numerous comments, annotations, observations, often very detailed, of biological and taxonomic interest express the endeavour and the effort, but also the doubts and the uncertainties of the researcher (above all of the neophyte), always cautious and measured in his conclusions.

The danger of wrong classifications in presence of reduced, anomalous edeagi or that however were far from normality because of the parasitization by Pipunculid Diptera and Dryinid Hymenoptera is denounced and demonstrated with plenty drawings. In the same way, the chromatic variations and the drawings that appear in newly emerged, or overwintering individuals, are described and illustrated with the rectifications of uncorrect diagnoses, that were put in light also with breedings in particular conditions of light, temperature, and humidity.

Besides field collecting, carried out very rarely by means of a sweepnet, more often with glass tubes directly on well identified herbaceous and arboreal plants, many specimens were obtained from juveniles reared until emergence on the host plant in the laboratory.

Meticulous field observations, supported by rearings, enabled him to describe the biology and ethology of several species, establishing their number of generations, overwintering and oviposition mode, fecundity, sex-ratio, presence of egg parasitoids and parasitoids of other life stages, being able to explore the possibility of transmitting phytopathogenic agents, and attributing malformations and decolorations of plant organs to mechanical actions due to nutrition.

The acronym "Typhl." followed by a number precedes all the species and indicates the collecting in a chronological order. Afterwards the Italian region and, in parenthesis, the acronym of the province of the mentioned locality are given. More species can fall within the same "Typhl." number; this means that they were collected on the same day, in the same place (or nearby places), on the same plant or on different host plants. Every "Typhl." refers therefore to a precise biocenosis. So, grouping all the species that carry the same "Typhl." number, one can reconstruct the more or less complex biocenosis (of the leafhopper and of the plant) for that place in that period. And as the plant species are mentioned at the various altitudes too, a punctual survey, across the expansion or the reduction of the plant's distribution area, can lead to identify the climatic and ecological variations that occurred in the different sites during the last fifty years.

Of the collected specimens the kind of preparation is given (dry, in alcohol inside small glass test tubes capped with a cotton stopper and placed inside containers full of alcohol, in small plastic tubes, glass mounted) otherwise it is mentioned that they have not been preserved.

Specimens considered particularly interesting, morphological features, plants with symptoms, parasitized individuals, parasitoids, and predators have been photographed with unparalleled skill. Some photographs, marked with "Phot." followed by a number, are inserted in the relative protocols. The prints, generally in black and white, supplied on the back with the essential data, subdivided by species or families, are conserved in about forty cardboard boxes belonging to a group of approximately 700 of such containers, over a hundred of which concern other Auchenorrhyncha in general, their natural enemies, the symptoms of their presence on the plants, while the others illustrate the various aspects of insects of different orders. The slabs of the aforesaid photographs are catalogued in a progressive order for a total exceeding 26,000 units. The characteristics of every subject are described in specific notebooks where, besides the number and the date, there are detailed indications on the collecting locality, sizes, sex and any other useful information for the determination and classification of the species and for reporting the alterations caused to plants, above all to the cultivated ones. The colour slides of Typhlocybines displayed in about forty containers are a part of this group, while other 3,000 are preserved in transparent slide-holders; also these slides, prepared for classes, practices, conferences, etc., belong to a number of subjects estimated in tens of thousands, dedicated to other Auchenorrhyncha and insects of different orders.

The species were classified according to Ribaut (1936, 1952); sometimes the names were subsequently updated following the work of other authors and are now written as

so, because we respected the original editing without corrections or modifications. For the systematic placement we followed the Checklist of Palaearctic Auchenorrhyncha (Nast, 1972). Posthumous nomenclatorial updatings have been made according to the Checklist of the species of the Italian fauna (D'Urso, 1995).

In the appendix 1 there is a list of the collections of new species or subspecies that Vidano had in his mind to study and eventually to describe. Viceversa the varieties, aberrations, forms, also if supposed new, are annotated in the remarks on the respective species in the "Typhl." of reference.

In the Appendix 2 there is a list of the collections of Auchenorrhyncha other than Typhlocybinae.

The results of Carlo Vidano's collecting and research concerning Typhlocybinae had their fulcrum and their compendium in his collection, made of approximately 16,000 specimens of 160 species, arranged in 53 entomological boxes, to which we must add 9 more boxes labelled: Material in study Collection C. Vidano; Typhlocybrids in study; Parasites Typhlocybrids; *Hordnia circellata* (Signoret); *Graphocephala fennahi* Young; Auchenorrhyncha I; Auchenorrhyncha U.S.A.; Auchenorrhyncha China; African Auchenorrhyncha, for a total of 62.

The specimens are preserved mostly dry on pointed cards or stored inside small transparent plastic tubes; some are in alcohol within glass test tubes with a cork stopper. Being species that are classified through the examination of the genitalia, several males are dissected and the pygofer and the edeagus are prepared and glued on the same card. On the cards beneath Carlo Vidano wrote the protocol number of the collection together with the locality, date, host plant, altitude. Leaves or twigs with traces of the trofic activity complete the data of species of particular naturalistic or agricultural interest. In the collection, 13 species types described by Vidano are preserved (1 posthumous).

For the expressed will of our Master, the above mentioned material, together with the results of the huge scientific work he carried out in the agricultural-entomologic and apidologic fields, the unpublished iconography, his personal library and correspondence remain a heritage of Di.Va.P.R.A. - Entomology and Zoology applied to the Environment of the University of Turin where Carlo Vidano worked uninterruptedly with absolute dedication for over forty years and that was entitled to him.

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PREFACE

The Auchenorrhyncha belong to the order Hemiptera (literally, insects provided with half wings), suborder Homoptera (similar wings), in which they represent a section together with that of the Sternorrhyncha. Their name is due to the position of the rostrum, or labium, that originates from the posterior part of the head and the base of which emerges in front of the coxae of the fore legs, differently from that of the Sternorrhyncha, the base of which appears between the coxae of the fore legs. They are commonly known in the whole world as cicadas or hoppers for the aspect of the adults that are generally winged, even if there are some brachypterous or micropterous species.

Their body is mostly slender, elongated, rarely short and stumpy (such as in Issidae), its size is very variable, from 1.5-2.0 to 30 mm in the palaearctic species up to several centimetres in tropical and subtropical species.

The head is metagnathous, i.e. directed obliquely downwards and backwards; the rostrum is found on its lower end and is made of the swollen labium, in which the four stylets are held, coming from the transformation of the two maxillae and the two mandibles, that are filiform and protrudable as it is typical in Hemiptera: insects with piercing-sucking mouthparts. The labrum is instead very small. The antennae are usually short, made of two swollen proximal articles (very obvious in Fulgoromorpha) and a flagellum that is generally setiform. On the head, on the sides of the compound eyes and on the vertex, there are three or two ocelli, but they can be missing too.

The thorax is robust, tri-articulate, divided into pro-, meso-, and metathorax. It has the notal area dorsally and the sternal area ventrally, connected to each other longitudinally in the pleural area. The prothorax is more or less developed in the different families; in Membracidae it is particularly enlarged and hyperthelic. Two pairs of wings are articulated on mesonotum and metanotum; the coxae of the three pairs of legs take origin on the prosternum, mesosternum, and metasternum.

The normally developed wings cover the whole abdomen and often are longer leaving the scutellum uncovered, that is a triangular area derived from the mesonotum that involves in part the metanotum; in the cases of brachypterism or micropterism the wings cover at least the metanotum. At rest the hind wings are sheltered beneath the forewings and they are kept roofwise over the body. They have several veins that are a good diagnostic character. The forewings are generally thicker than the hind ones and are called tegminae. In Cicadellidae, in a lateral position, the wings show a sub-ovoidal area called wax area. In Flatidae the forewings are expanded and sub-trapezoidal.

The legs are rather long, with tri-articulated tarsi, and they are covered with many setae and spines that play particular functions in the different groups. The hindlegs, more developed, are apt to jumping, whence the common names of leafhoppers (Cicadellidae) to be preferred to the more general name of sharpshooters, planthoppers (Delphacidae), treehoppers (Membracidae), froghoppers (Cercopidae). In the species in which the juveniles remain underground for long periods, the forelegs are fossorial (Cicadidae).

The abdomen, mostly cylindrical or conical, is made of 11 articles (or urites); the first ones bear the sound producing organs, that are well developed in several males (cicadas) and in females too, besides the microsounds or ultrasounds, perceptible only

through a proper amplification; the sounds produced are interpreted as sexual calls (and replies) and therefore specific. The last articles bear the external gonapophyses. The females are provided with a strong ovipositor, made of three pairs of valves, that take origin from the eighth and ninth urosternites and that can exceed the length of the abdomen and be kept at rest in a groove made by the last urosternites, but it could be rudimentary too. In the males the pygofer is particularly important because in the eighth urite there is the copulatory organ that, especially if it is well sclerotized, together with the other structures, such as setae, hairs, styli, genital laminae, assumes a capital importance for the classification of several species.

From a chromatic viewpoint, all body parts: head, thorax, abdomen, can be almost of the same colour, i.e. green, grey or yellowish tints, or show patches, spots, or stripes of lively colours; but it is above all on the wings that the pigmentation may assume tones and decorations ranging from white to black through all hues: yellow, red, brown, chestnut, making the most variable drawings, stripes, striations and showing marvelous and particularly appreciable mixtures. Sometimes there is a chromatic dimorphism.

Oviposition is generally endophytical. The eggs, usually elongated and fusiform, are laid in characteristic series or singly inside trunks, branches, stems, veins, leaves, but they can be left on the ground too; they hatch after an embryonic development of about ten days for the species with spring and summer generations, of several months for the species overwintering in the egg stage. Though they are heterometabolic insects, i.e. with a gradual and continuous metamorphosis, the development is accomplished through two distinct processes, called paurometaboly and hemimetaboly. After hatching, the juveniles of the species developing paurometabolically remain on the plant (e.g. most of Cicadellidae that are always epigeal), those with a hemimetabolic development leave the plant and reach the ground (e.g. Cixiidae and Cicadidae that live as juveniles in the ground and as adults in the open air). The juvenile stages are represented by five instars, called neanids in the first instars, generally two in which the wingpads are not yet visible, and nymphs in the following instars, in which the wingpads appear and grow with the moults. The adults emerge from the last instar nymph (usually the fifth instar) and it holds functional wings and its aspect can be very similar to the previous stage or show remarkable morphological differences that are determined by the life in different environments.

Even if they cannot be considered strictly homodynamic insects, the number of their generations ranges generally from one to four, that can be reduced or increased in some species according to climatic and environmental conditions. Overwintering is carried out by the egg laid in plant tissues or by adults sheltered in sites from which they move during warmer days, or by juveniles on the ground or on the roots of their plant hosts.

Concerning nutritional aspects, the Auchenorrhyncha are all plant suckers and are considered the transition group between Heteroptera, with a mixed feeding regime, phytophagous and zoophagous, and the Sternorrhyncha, with a strictly phloem sucking regime. Actually they include cell or mesophyll-sucking species (which empty the contents of the cells of the leaf parenchyma and emit blackish excrements), xylem-sucking species (that feed sucking from xylem vessels and emit watery droppings, as transparent droplets or as a white foam), phloem-sucking species (that suck phloem sap and expell

honeydew), phloemophthorous species (that pierce phloem vessels interrupting the sap flux and eliminating brownish excrements).

Their physiological features comprise the organs that produce and receive sounds (cicadas) and vibrations (leafhoppers), specific micetomes with their microsymbionts, the intestine supplied with a filtering chamber (a structure that permits the xylem-sucking species to direct the excess of water straight to the rectal ampulla and to send the feeding substances to the mesenteron), foam production (water mixed with substances from the malpighian tubules and insufflated with air) (Cercopidae), honeydew production (Membracidae, Flatidae), wax production (Fulgoromorpha), brochosome production.

The last mentioned are ultramicroscopic structures, associated to Cicadellidae, that have their origin in the malpighian tubules and are poured inside the intestine from which they are emitted through the anus suspended in droplets well distinguishable from the excrements. Although they are commonly called spherulae, actually they have a reticulated aspect (literally their name means “netlike body”). Their shape is a geometrical figure with pentagonal and hexagonal faces, often 12 pentagons and 20 hexagons, ascribable to the empty truncate icosahedron. Their size ranges from μm 0.20 to μm 0.60 and they seem composed of a proteic frame surrounded by saturated lipids. Collected inside anal droplets, they are spread on the whole body by means of swift movements of the legs that bear special setae displayed combwise on the anterior and posterior tibiae and they are stored on the forewings too, in thick oval layers forming the improperly named “wax areas”. This phenomenon is obvious above all in Typhlocybinae. Having an almost unknown nature and composition, they are interpreted as protective material for the small insects producing them.

The Auchenorrhyncha show clearly hygrophilic habits and prefer humid and fresh environments, such as irrigated meadows, the base of grass tufts, the lower leaf page, or even the ground where they accomplish their juvenile development. Some species are monophagous or pseudomonophagous, obliged to live and reproduce only on one or few plant species of the same genus, several species are oligophagous within one of more plant families, many are polyphagous and feed on a lot of herbaceous and arboreous plants.

From a chorological viewpoint, few are the species really eurioicous (i.e. very widespread); most of them are limited to the zoogeographic region of origin (except for a diffusion caused by man with more or less aware introductions into different zones), several species show particular climatic or geographic needs (tendentially thermophile or cryophile species), others are real endemisms in precise sites and on specific plants.

A lot of natural enemies, predators and parasitoids, control the populations of Auchenorrhyncha. The former are rather generic or polyphagous and prey mostly on juvenile stages. Among the latter there are juveniles and adults of Orthoptera Ensiphera (*Meconema* spp., *Oecanthus pellucens* Scopoli) and Heteroptera Miridae (*Malacocoris chlorizans* Panzer), larvae of Neuroptera Chrysopidae (*Chrysoperla* spp.), and adults of Acari (*Anystis* sp.). The parasitoids are more specific and therefore more efficient, above all Hymenoptera Mymaridae, Trichogrammatidae, and Dryinidae, Diptera Pipunculidae, and Strepsiptera. Mymaridae (of the *Anagrus* complex) and Trichogrammatidae (*Oligosita* spp.) are tiny egg parasitoids that destroy the eggs of a great number of species. Because of their plasticity in searching their victims in the most different places, they can reproduce very easily throughout long parts of the year.

Dryinidae are more specialized: the female chooses its hosts among the young nymphs and/or adults, on which it sometimes carries out a predatory action too, and lays an egg inside their body. The larva that hatches, after a moult, emerges from the victim's body remaining inside a larval sack that keeps its exuviae and may be of a light yellowish or black colour according to the species. At maturity the larva abandons the empty remains of the victim and spins a loose silk cocoon on a leaf or in the ground where it goes through nymphosis.

Pipunculidae attack adults and lay a single egg in their body in which the larva grows. The victim's abdomen, swollen and bigger, denotes the accomplished parasitization, followed soon by a scarce mobility and finally by the death. The mature larva abandons at the end the leafhopper's body and transforms itself into a more or less dark brown puparium.

Strepsiptera are known above all as parasitoids of Hymenoptera and not so long ago they have been studied also in Auchenorrhyncha. They have a very peculiar biology and hypermetabolic larvae: those of the first kind are similar to the larvae of parasitoid Coleoptera. The insects attacked by Strepsiptera are called "stylopized" from the name of the genus *Stylops*, known in Vespoidea. In some part of the body of a stylopized specimen, a small buttonlike protrusion emerges from an intersegmental membrane. It is the anterior part of the so-called "puparium" of the parasitoid's male or the cephalothorax of its female, the rest of which is inside the host's body. The victims able to get free of the undesired guest and managing to reach the adult stage show, as a consequence, a parasitary castration, i.e. the more or less extreme involution of genitalia. This phenomenon, now well-known to specialists, caused great misunderstandings not so long ago, i.e. the description of new species, described on a single specimen on the grounds of the analysis of the aedeagus.

As far as economic aspects are concerned, the greatest majority of the several thousands of described Auchenorrhyncha species may be considered harmless. The most worrying phytopathological disorders are connected to the trophic and egg-laying activity of some tens of species that pass from wild plants onto cultivated ones, on which they provoke damage both directly and indirectly. The mesophyll-sucking activity seems the less important, even if emptying a great number of cells, in which air enters, decreases the photosynthesising area of the leaf. However, even few depigmentations in ornamental or flower plants modify their esthetics, depreciates their value and compromises their marketing.

The trophic action of xylem-sucking species is more impressive, because of the great water depletion from the plant tissues. In temperate zones the damage is generally not too important, because the water input from the environment can compensate the water subtraction due to the insects, but in tropical or subdesertic zones, where the drought periods last long, the situation of infested plants may become dramatic. In Aphrophoridae, that are typically paurometabolic, the quantity of water ingested and eliminated through the filtering chamber can be so high to fall onto the ground as a kind of rain; the species producing foam may dirty officinal plants or valuable ornamental plants with these white masses. In Cercopidae, that are instead hemimetabolic, the phenomenon is not obvious immediately because neanids and nymphs live and feed on the roots, but the withering

and depreciation of the plant are the symptoms of the cause, even if invisible.

Phloem-sucking species, subtracting phloem sap, cause alterations that in the serious cases end in actual damage with withering, poor flowering and fruit-setting, or even death. One must add to this the production of honeydew and wax that cover, dirty and depreciate the plants. Moreover, honeydew is an optimum substrate for the growth of sooty moulds that, causing thick layers, produce the physiological dryness of the organs involved, above all of leaves.

Among the direct damage, egg-laying wounds are still to be considered as worrying above all in woody species. They are made with the ovipositor, or terebra, a sclerified pointed and serrate organ, that cuts the branch in depth to produce simple or multiple elongated pockets, according to the species, where the eggs are laid. If the infestation is heavy, young branches or plantlets are literally studded with wounds and may die [e.g. *Cicadella viridis* (L.) in grapevine canes or *Stictocephala bisonia* Kopp & Yonke in fruit trees].

Indirect damage is more sneaky and, at least at the beginning, less obvious, but more dangerous and connected with feeding punctures of phloemophthorous species. Such piercings, interrupting the phloem sap flux (while the xylem is still working), if made on herbaceous stems, cause swellings upstream, anomalous proliferations, leaf thickening, and abnormal pigmentation for the accumulation of carbohydrates (e.g. *S. bisonia* in *Vitis*), if they involve the leaves, they cause vein browning, thickening, desiccation that starts from the edge and reaches the petiole (marginal burning), and leaf fall in serious cases [e.g. *Jacobiasca lybica* (Bergevin & Zanon) on grapevine in countries of the Mediterranean Basin].

Among these cases there are the so-called toxiemias, phenomena by which the injection of toxic and necrotizing saliva into growing tissues causes morphological alterations, distortions, crisping, bullations, various malformations, withering, difficult growth of the whole organ, and an action also on areas far from the piercing point.

Of course the greatest concern is caused by species able to transmit dangerous phytopathogenic agents. The mesophyll-sucking Auchenorrhyncha, represented mostly by Cicadellidae Typhlocybinae, are not listed among the vectors of phytopathogenic agents. The phloem-suckers, in particular Cicadellidae Deltocephalinae, Delphacidae, and Cixiidae, include typical vectors of viruses, phytoplasmas, and phloematic bacteria, all pathogenic agents that, in the plant, colonize the phloem tissue. As an example, among the virus vectors one can remember the Delphacidae *Javesella pellucida* Fabricius and *Laodelphax striatellus* (Fallén) and the Cicadellidae Deltocephalinae *Neoaliturus haematoceps* (Mulsant & Rey) and *Psammotettix alienus* (Dahlbom). Among the phytoplasma vectors one remembers the Cixiidae *Hyalesthes obsoletus* Signoret, the Cercopidae *Philaenus spumarius* (L.), the Cicadellidae Deltocephalinae *Macropsis fuscula* (Zetterstedt), *Aphrodes bicincta* (Schrank), *Macrosteles cristatus* (Ribaut), *M. laevis* (Ribaut), *M. quadripunctulatus* (Kirschbaum), *M. sexnotatus* (Fallén), *Euscelis incisus* (Kirschbaum), *E. lineolatus* Brullé, *Neoaliturus fenestratus* (Herrich-Schäffer), *Fieberiella florii* (Stål), *E. variegatus* (Kirschbaum), and *Scaphoideus titanus* Ball. For the phytoplasmas one can mention the Deltocephalinae *Circulifer tenellus* (Baker) and *N. haematoceps*, vectors of *Spiroplasma citri* Saglio *et al.* that causes the disease known with the common name of Stubborn or Citrus little leaf.

Xylem-sucking Auchenorrhyncha include species, above all among Cicadellidae Cicadellinae, able to transmit pathogens of the wood tissue, such as *Xylella fastidiosa* Wells *et al.*, a bacterium causing Grapevine Pierce's disease and different pathologic appearances in other host plants [e.g. *Graphocephala atropunctata* Signoret, *Carneocephala fulgida* Nottingham, *Draeculacephala minerva* (Ball), *Homalodisca coagulata* (Say)].

The species introduced from zoogeographic regions different from the native ones are a source of serious concern; they reach new areas without the complex of natural enemies that control their populations in the countries of origin [e.g. *Metcalfa pruinosa* (Say), *Acanalonia conica* (Say), *Erythroneura vulnerata* Fitch] and, above all, those able to transmit phytopathogenic agents (e.g. *S. titanus*, a species introduced from the Nearctic Region into the Palaearctic one).

A rather recent estimation assigns to the Auchenorrhyncha section about 40,000 species belonging to over 20 families, diffused in all natural ecosystems where they play a role of capital importance, subdivided into two groups: Fulgoromorpha and Cicadomorpha. The former comprises species showing the postclypeus distinguished from the frons, antennae inserted beneath the compound eyes, elongated middle-leg coxae, forewings with two anal veins joint in the apical part, hind wings without the peripheral vein. It includes several families, the most meaningful of which are Cixiidae, Dictyopharidae, Flatidae, Fulgoridae, Issidae, and Delphacidae. The Cicadomorpha show postclypeus and frons fused together, antennae generally inserted between the compound eyes, short middle-leg coxae, forewings with free anal veins distally, hind wings with the peripheral vein separated from the margin. This group includes few families: Cicadidae, Cercopidae, Aphrophoridae, Membracidae, and Cicadellidae.

Concerning Carlo Vidano's specific scientific work on Auchenorrhyncha, his research on taxonomy, natural enemies, vectors of phytopathogenic agent, and introduction of exotic species are worth being remembered.

As a specialist of Cicadellidae Typhlocybinae he described 12 new species: *Erythria alpina*, *E. pedemontana*, *Forcipata flava*, *F. obtusa*, *Chlorita helichrysi*, *C. multinervia*, *Edwardsiana platanicola*, *Eupteryx salviae*, *Hauptidia incospicua*, *H. lapidicola*, *Zyginidia longicornis*, and *Z. servadeii*. He created the new genus *Ficocyba*, he revised the Alpine *Erythria* and *Erythridea*, the transalpine and cisalpine *Forcipata*, and the European *Dikraneura*.

He was not only a taxonomist recognized worldwide, but rather an expert biologist and agronomist, and he dedicated his research activity in particular to the ascertainment of the relations between insects and plants. Through these studies he found out and described the obliged dioecy of *Ficocyba ficaria* (Horváth) between winter hosts, represented by different species of the genus *Lonicera* (honeysuckle), and the spring-summer host *Ficus carica* L., and that of the congeneric species *Lindbergina aurovittata* (Douglas) and *L. spoliata* (Horváth) between evergreen oaks as winter hosts and deciduous oaks for the spring-summer period. He identified the leafhopper fauna of officinal and melliferous herbaceous plants, of broadleaf trees such as alder, birch, hazelnut, hornbeam, European hop-hornbeam, beech, chestnut, and deciduous and evergreen oaks, pointing out the relations between leafhopper species and host plants in the different periods of the year. By collecting adults and rearing the nymphs collected on the dif-

ferent plants, he managed to classify the species in occasional (present on the plant hosts only as adults), polyphagous, oligophagous, monophagous (able to multiply on many, or few, or only one host plant). For a long time he studied the biotaxonomy, ecology, chorology, and epidemiology of local and exotic leafhoppers, such as the cryophile *Empoasca vitis* (Goethe) and the thermophiles *J. lybica*, *Zygina rhamni* (Ferrari), and *Arboridia dalmatina* (Novicki & Wagner) dwelling on grapevine. He ascertained experimentally the ampelophile specialization of *E. vitis*, *J. lybica* (facultative ampelophagous) and *Z. rhamni* (obliged ampelophile) and he described in detail the external phytopathological appearance of canes and leaves of the grapevines involved by the trophic activity of juveniles and adults. He ascertained the intervention threshold of the green leafhopper *E. vitis* on the main cultivars of red and white grapevine. He checked the intraspecific variations, in particular the chromatic variations, induced by abiotic environmental factors, such as temperature and photoperiod, in the genus *Zygina*. He dealt in depth with the genus *Zyginidia*, that comprises about thirty mesophyll-sucking species spread in Europa and Asia, all dwelling on wild and cultivated grasses. He studied the localization in the different regions where he conducted his speciographic, chorologic, and ecologic investigations of the ten species found in Italy, two of which described for the first time. He put in light the distribution, the life history, and the phytopathological consequences of the migrations from wild grasses to cultivated winter cereals and to maize of *Z. pullula* (Boheman) that colonized the whole Po plain. By rearings and breedings carried out in the laboratory, he clarified the morphological variations of the male genitalia found in the areas of overlapping of the congeneric *Z. pullula* and *Z. scutellaris* (Herrich-Schäffer) that caused serious problems to a specific determination. He studied the brochosomes, ultramicroscopic structures associated to Auchenorrhyncha Cicadellidae, analyzing them by means of transmission and scanning electronic microscopes and trying to give an interpretation of their function.

Besides the important project of biological control against the nearctic Membracidae *S. bisonia*, Carlo Vidano conducted a lot of other researches aimed at finding out and studying the biocoenotic relations between the complex of natural enemies (arthropods and fungi) and the leafhoppers of different agro-ecosystems. He identified the natural enemies, above all egg parasitoids and entomopathogenic fungi, of *Z. pullula* showing their extraordinary efficacy in controlling a species otherwise detrimental to maize cultivations. He conducted researches on the vineyard agro-ecosystem for a long time, finding and highlighting the different useful species: among the predators, the Orthoptera Ensifera *Oe. pellucens* and the Hemiptera Miridae *M. chlorizans*, among the parasitoids several species of koinobionts and idiobionts. In particular he studied the behaviour and the role of Diptera Pipunculidae and of Hymenoptera Dryinidae on *E. vitis* and *Z. rhamni*. He ascertained the action of the oophagous Mymaridae *Anagrus atomus* (L.) and pointed out its fundamental role in controlling the populations of the green leafhopper *E. vitis*. He identified the egg parasitoid species of the poplar Idiocerinae *Rhytidodus decimusquartus* (Schrank); he put in light the morphogenetic alterations of the Cicadellidae *Opsius stactogalus* Fieber parasitized by Diptera Pipunculidae and their speciographic differences.

He carried out investigations to ascertain the possible presence in Europe of the

grapevine Pierce's disease, the causal agent of which is the bacterium *X. fastidiosa* transmitted by xylem-sucking leafhoppers. He dealt with the maize virosis Maize Rough Dwarf Virus (MRDV) known in Italy as "nanismo ruvido del mais". In collaboration with his national and international virologist colleagues, he made comparative investigations on the Delphacidae *J. pellucida* and *L. striatellus* to verify their role in MRDV transmission. He transmitted experimentally by means of *L. striatellus* this virosis to *Triticum aestivum* L., *Avena sativa* L., and other Gramineae. He proved the particular receptivity of maize to this virus in the coleoptile phenologic phase. With the electronic microscope he showed the presence of viral particles both in the plants experimentally infected and in the salivary glands and micetome of the insect vector. He investigated the microecology and the multiplication of the virus in *L. striatellus* and he described the phagocytic vescicles, the granular microtubules and the other phases of the cycle of the phytopathogenic agent in the delphacid vector. During his last years he dedicated a great part of his activity to the realization and coordination of ministerial projects to finance research aimed at getting innovative knowledge on grapevine Flavescence dorée (FD), the new phytopathological problem of a remarkable economic concern in Italy. This ampelopathy, caused by a phytoplasma transmitted by the Deltocephalinae of nearctic origin *S. titanus* appears with a leaf downward rolling, colour change (yellowing in white cultivars, reddening in red cultivars), and thickening, missed lignification of canes and ripening of grapes, and in the worst cases the death of the plant. Having ascertained the presence of other yellows of phytoplasmic origin and the diffusion of FD also in areas where *S. titanus* was absent, he directed his attention to other Auchenorrhyncha of vineyards. In particular he studied the bio-ethology of *H. obsoletus*, *Ph. spumarius*, *A. bicincta*, *N. fenestratus*, *M. cristatus*, *M. laevis*, *M. quadripunctulatus*, *M. sexnotatus*, *F. florii*, *E. variegatus*, *E. incisus* and he proposed their possible role in the transmission of phytoplasma agents of grapevine yellows. He made observations on the evolution of these symptoms on grapevines and on herbaceous plants of the vineyard agro-ecosystem affected by phytoplasmas.

Thanks to his continuous field surveys and his punctual and meticulous observations, he reported the arrival into Italy of a great number of insect species, among which some Auchenorrhyncha. Of all of them he studied the life history, the ecological needs, the ethological aspects, the phytopathological consequences, and the control methods, possibly environmental-friendly. Besides the already mentioned membracid *S. bisonia*, that was the subject of his graduation thesis and other important scientific contributions, we must remember the Cicadellidae *S. titanus*, *Japananus hyalinus* (Osborn), *Cicadulina bipunctata* (Melichar), and *Graphocephala fennahi* Young. *S. titanus*, of northamerican origin, was found for the first time in 1964 in the western Ligurian Riviera. It is a vector of the FD phytoplasma agent, it lives exclusively on grapevine, it accomplishes one generation a year and overwinters in the egg stage inside the bark of the trunk of two-year old canes. *J. hyalinus* (Osborn), of probable Asian origin, is recorded in Europe in Austria, Rumania, Czech Republic, Slovakia, France, Russia, and the countries of former Yugoslavia. In Italy this species was found for the first time in 1984 on ornamental maples. Its life history resulted to be bivoltine with the overwintering as an egg deeply inserted in the nodes of the host plants. *C. bipunctata*, originary of North-

east Africa, is present also in South and West Asia, Australia, Oriental Region, islands of the Indian and Pacific Oceans. It had never been mentioned for Europe. In Italy it was found for the first time in 1985 in East Sicily. It is a homodynamic species, with a variable number of annual generations according to the environmental conditions. It lives on wild and cultivated grasses to which, like other congeneric species, it can transmit viruses; this species did not result to be a vector in Italy. *G. fennahi*, probably originary of the Southwest area of Northamerica was introduced into Europe by means of plants hosting its overwintering eggs; in Italy this species was found at the end of the '80s. Dwelling on ornamental plants of the genus *Rhododendron*, it accomplishes one generation a year and overwinters as an egg laid in the perulae of the flower gems. Through its oviposition wounds, this species favours the diffusion of the fungus *Pycnostysanus azaleae* (Peck) Mason, that provokes necroses of the flower buds.

Carlo Vidano's papers concerning Auchenorrhyncha are listed in Appendix 3.

N.B. How to read the notes:

Typhl. progressive no. - REGION - Locality (acronym of the province in parentheses) - Site specifications (A-B without spaces between the names = along the way from A to B) - Elevation - H.P. (host plant) - (as ... = the name originally given to classify the specimens): no. of ♂♂ and ♀♀ collected - If parasitized and how many preserved in alcohol or dry or photographed - Further data on the insect or the environment.

COLLECTIONS MADE BY PROF. CARLO VIDANO

ORIGINAL PROTOCOLS, ANNOTATIONS, COMMENTS, OBSERVATIONS,
DRAWINGS, SKETCHES, PHOTOGRAPHS

Family CICADELLIDAE Latreille, 1825

Subfamily TYPHLOCYBINAE Kirschbaum, 1868

Box 1

Tribe ALEBRINI McAtee, 1926

GENUS *ALEBRA* Fieber, 1872

ALEBRA albostriella (Fallén, 1826)

- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of San Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8-9 m high) - var *viridis* Rey: 1♂ 1♀ dry - Candia Canavese (TO) - 27-VI-57 - H.P. *Castanea sativa* - var *diluta* Ribaut: 1♀ (reared from a 5th instar nymph) dry.
- Typhl. 122 - PIEDMONT - Turin - (Botanical Gardens) - 4-VII-57 - H.P. *Quercus robur* - Forma typica: 1♀ (pale-yellow stripes) - Forma typica: 2♀♀ (red stripes) dry (phot. 4,110) - var *discicollis* Herrich-Schäffer: 2♀♀ (phot. 4,111) - var *viridis*: 1♂ dry.
- Typhl. 127 - PIEDMONT - Stupinigi (TO) - (road of Pinerolo) - 5-VII-57 - H.P. *Quercus pedunculata* - Forma typica: 14♀♀ (1 red stripe, 2 orange stripes, 11 yellow stripes) (3 dry, 11 in alcohol) - var *diluta* Ribaut: 9♂♂ (3 dry, 6 in alcohol) - var *discicollis* Herrich-Schäffer: 10♀♀ (1 red stripe, 2 orange stripes, 7 yellow stripes) (3 dry, 7 in alcohol).
- Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal: Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata* - Forma typica: 3♀♀ - var *diluta* Ribaut: 4♂♂ - var *discicollis* Herrich-Schäffer: 2♀♀ (in alcohol).
- Typhl. 146 - APULIA - Gargano (FG) - (Umbra Forest) - 22-VII-57 - m 800 - H.P. *Acer campestre* - var *diluta* Ribaut: 8♀♀ (2 phot. 4,199; 3 dry, 5 in alcohol) - (All with black spots on hind tibiae) - var *diluta* Ribaut: 3♂♂ (2 in alcohol, 1 dry) - (only 1 with wings slightly infumate and brown veins, but all three have black spots on hind tibiae).
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings Viola Farm) - 28-VII-57 - H.P. *Quercus pedunculata* - var *diluta* Ribaut: 1♂ dry - var *viridis* Rey: 1♀ dry - var *discicollis* Herrich-Schäffer: 1♀ dry (yellow).
- Typhl. 177 - CAMPANIA - Punta S. Angelo, Sant'Agata sui due Golfi (NA) - 4-IX-57 - (Property Miss Todeschini - Miramare Sorrento) - H.P. chestnut - var *diluta* Ribaut: 1♂ 4♀♀ dry - var *viridis* Rey: 8♂♂ 10♀♀ (2♂♂ 3♀♀ dry) - Forma typica: 2♂♂ 2♀♀ dry.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Viola Farm) - 14-IX-57 - H.P. *Quercus pedunculata*: ♂♂♀♀ not prepared.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - Forma typica: 2♂♂ 5♀♀ (on the high part of the canopy, at 3-4 m from the ground) dry.

- Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - var *diluta*: 6 ♀ ♀ (3 with red striae and 3 with yellow striae) dry - var *discicollis*: 1 ♀ dry.
- Typhl. 292 - LIGURIA - Colle di Melogno (SV) - (Slope of Finale) - m 500-600 - 4-VI-II-60 - H.P. *Castanea*: 1 ♂ 6 ♀ ♀ (parasitized by *Aphelopus*) in plastic tubes.
- Typhl. 306 - PIEDMONT - Fiano-La Cassa (TO) - 31-V-61 - H.P. *Quercus pedunculata*: 3 ♂ ♂ dry.
- Typhl. 319 - SICILY - Catania - (road of Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Castanea sativa*: 6 ♂ ♂ 1 ♀, 1 nymph dry.
- Typhl. 337 - SARDINIA - Aritzo (NU) - m 796 - 16-VIII-61 - H.P. *Castanea sativa* (cop-pice): 1 ♂ 2 ♀ ♀ not prepared - Desulo (NU) - m 891 - H.P. *Castanea sativa*: 1 ♂ 3 ♀ ♀ not prepared.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Castanea sativa* v *viridis*: 1 ♂ 4 ♀ ♀ dry - H.P. *Quercus pedunculata*: 3 ♀ ♀ (2 forma typica, 1 forma *discicollis*) dry.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 1 ♀ not prepared.
- Typhl. 399 - CAMPANIA - Avellino (AV) - (Laboratory of Agricultural Entomology of Portici) - Sent by dr Viggiani - 12-VII-62 - H.P. *Corylus avellana* - Forma *diluta*: 4 ♂ ♂ - Material sent back to dr Viggiani on 24-VII-62.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Quercus pedunculata*: 4 ♂ ♂ dry, 19 ♀ ♀ - phot. 10,098: ♀ forma typica with yellow lines; 10,099: ♀ forma typica with red lines; 10,100: ♂; 10,101: ♀ forma *discicollis* with red lines; 10,102: ♀ forma *discicollis* with pink lines.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione House) - m 600-700 - 24-VIII-62 - H.P. *Castanea sativa*: ? 8 ♀ ♀ dry - ♀ forma *viridis* (phot. 10,312) - Length mm 4.1 (black abdomen, tibiae with black spots!).
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris*: 1 ♀ not prepared.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Quercus pedunculata*: 5 ♂ ♂ 3 ♀ ♀ dry.
- Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings at 1-2 Km from the railway station) - 12-VII-64 - H.P. *Quercus pedunculata*: 9 ♂ ♂ 6 ♀ ♀ dry.
- Typhl. 500 - GREAT BRITAIN - Hampshire - Brockenhurst - New Forest - 12-VII-64 - H.P. *Betula alba*: 3 ♂ ♂ 7 ♀ ♀ dry - H.P. *Quercus pedunculata*: 8 ♂ ♂ 12 ♀ ♀ dry.
- Typhl. 509 - UMBRIA - Massa Martana (PG) - (Calcareous, karstic zone) - 15-VIII-64 - H.P. *Quercus aegylops*: 1 ♂ 1 ♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Quercus aegylops*: 1 ♂ 2 ♀ ♀ dry.
- Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Acer monspessulanum* (species scarcely represented), *Ostrya carpinifolia*, *Quercus pubescens*, *Q. aegylops*: 1 ♀ dry.
- Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (Near the restaurant on the road Sinj-Livno) - m 900 - Very sunny karstic zone, with low

- shrubs of *Quercus* 2-3 Km downstream of Vaganj towards Sinj - 4-IX-64 - H.P. *Quercus cerris* and *Q. pubescens* (shrubs): 1♂ 2♀ ♀ dry.
- Typhl. 616 - PIEDMONT - Predosa (AL) - 9-VIII-81 - H.P. *Quercus cerris*, *Q. pubescens* - Forma typica: 3♂ ♂ 4♀ ♀ dry - (Cfr. Typhl. 618).
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Lemme stream) - 15-VIII-81 - H.P. *Alnus glutinosa* (stream bed where *Salix* and *Populus* are abundant, but *Quercus* is missing): 3♀ ♀ forma typica (orange-red lines) dry (1♀ phot. ... Wild: dorsal, lateral, ventral).
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Quercus cerris* (+ *Q. pubescens*): 1♂ 1♀ dry + nymphs (phot. ... Wild: ♂, ♀ and nymph - Length: ♂ mm 3.5; ♀ mm 4.0; nymph mm 2.6) - H.P. *Quercus cerris*: shoots grown from coppice with ash (close to *Prunus spinosa*, etc.): 1♂ 6♀ ♀ dry.
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Quercus cerris* and *Q. pubescens*: 1♀ dry.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 3♀ ♀ dry.
- Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa* (presence of *Quercus* nearby): 1♂ 1♀ dry.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Quercus pedunculata* (railing towards the Medieval Castle): 3♂ ♂ 5♀ ♀ dry.
- Typhl. 679 - PIEDMONT - Foresto - Bussoleno (TO) - 4-VI-84 - H.P. *Quercus pubescens* (depigmented leaves) - Nymphs given to Bosco to rear: 4♂ ♂.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Castanea sativa*: 4♂ ♂ 3♀ ♀ (2♂ ♂ 1♀ dryinidized) dry - H.P. *Betula verrucosa* (slope of Cumi-ana): 1♀ not prepared. Probably coming from nearby broadleaf trees.
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant shrubs): 5♂ ♂ 12♀ ♀ not prepared (12♀ ♀ forma *viridis* with toughened integument: old generation - 5♂ ♂ still pale and just emerged).
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - 16-IX-84 - H.P. *Betula pendula* (young and luxuriant plants, close to *Fagus*, *Salix* and *Rubus*, in a grassy and humid plain): 2♂ ♂ 1♀ dry.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - (Slope of Garessio) - H.P. *Castanea sativa* (low part of canopy along the road): 2♂ ♂ 6♀ ♀ dry.
- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,400 - (Slope of cableway, along the road of Garessio) - H.P. *Alnus viridis* (considerable depigmentations) - shrubs along the road: 1♀ not prepared - H.P. *Fagus sylvatica* (close to the thicket of *A. viridis*): 1♀ not prepared.
- Typhl. 758 - PIEDMONT - Castellazzo (AL) - (River Bormida) - 9-VI-85 - H.P. *Quercus cerris*: 7♂ ♂ 6♀ ♀ not prepared.
- Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (close to *Q. ilex*): 1♂ not prepared.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all luxuriant shrubs and canopies): 1♀ dry.

Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Quercus robur*: 2 ♀ ♀ not prepared.

ALEBRA coryli Le Quesne, 1977

Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione House) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana* (Vidano 1987): ? 4♂♂ 11 ♀ ♀ dry (1 ♀ parasitized by *Aphelopus*) - N.B.: ♂♂ yellow, ♀♀ forma *pallescent* (already confused with *A. wahlbergi*, editor's note) - The *Corylus* plants considered are near to the chestnut ones (see next page), on which also ♀♀ of *A. albostriella* var *viridis* were found.

Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Corylus avellana* (behind an isolated house): 9 ♀ ♀ dry (Vidano, 1987).

Typhl. 653 - PIEDMONT - Turin - (Valentino Park) - (Medieval Castle) - 11-VII-83 - H.P. *Corylus avellana*: ? 1♂ dry.

Typhl. 657 - PIEDMONT - Turin - (Valentino Park) - 8-VIII-83 - H.P. *Corylus avellana*: ? 1♂ 3 ♀ ♀ dry.

Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: ? 4♂♂ 4 ♀ ♀ dry, + 1 5th instar nymph.

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana*: abundant on borders of lots (meadows), mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, and farther *Betula verrucosa* (*Quercus* missing): ? 11♂♂ 27 ♀ ♀ dry - Det. Vidano 1987 (+ 3♂♂ 4 ♀ ♀ dryinidized). + ♂♂ feminized somatically and chromatically.

Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - (Slope of Garessio) - H.P. *Corylus avellana* - (as *wahlbergi*) - 2nd shrub (along the road downwards): 7 ♀ ♀ not prepared.

Typhl. 740 bis - PIEDMONT - S. Michele Mondovì (CN) - 27-IX-84 - m 600 - H.P. *Corylus avellana* (cultivated): 1 ♀ not prepared.

Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - H.P. *Corylus avellana*: 1 ♀ (dryinidized) dry.

ALEBRA neglecta Wagner, 1940

Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Carpinus betulus*: 1♂ dry.

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus*: 1♂ 13 ♀ ♀ dry - phot. 10,096: ♂; 10,097: ♀.

Typhl. 403 - PIEDMONT - Stupinigi (TO) - 7-VIII-62 - H.P. *Carpinus betulus*: 1 ♀ dry.

Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Betula pendula*: 1♂ 1 ♀ dry - Det. Vidano 1987.

ALEBRA sorbi Wagner, 1949

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Corylus avellana*: ? 1♂ 2 ♀ ♀

dry (♂ ruined in glass tube by a spider - The lobes of the pygofer correspond entirely to those described by Wagner for *A. sorbi*).

Typhl. 403 - PIEDMONT - Stupinigi (TO) - 7-VIII-62 - H.P. *Corylus avellana*: ? 2♂♂ 6♀♀ dry. Or ?*wahlbergi* (1 of the ♂♂ is without abdomen).

ALEBRA wahlbergi (Boheman, 1845)

Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Luxuriant shrubs made of basal shoots grown 3-4 months ago after felling big logs to install the tension line. The canopy is still thick and green, while that of normal shrubs is scarce and yellow - var *palleszens*: 1♀ dry.

Typhl. 122 - PIEDMONT - Turin - (Botanical Gardens) - 4-VII-57 - H.P. *Alnus glutinosa* - Forma typica: 2♀♀ dry - var *palleszens* Ribaut: 3♂♂ 2♀♀ dry - H.P. *Betula alba* - var *palleszens* Ribaut: 1♀ dry.

Typhl. 146 - APULIA - Gargano (Umbra Forest) (FG) - m 800 - 22-VII-57 - H.P. *Quercus cerris* - var *palleszens*: 1♀ dry - H.P. *Acer campestre* - var *palleszens* Ribaut: 7♀♀ (3 dry, 4 in alcohol; phot. 4,200), 2♂♂ in alcohol.

Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Around Viola Farm) - 28-VII-57 - H.P. *Acer campestre* - var *palleszens* Ribaut: 1♂ 10♀♀ dry - H.P. *Quercus pedunculata*: 1♂ dry.

Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - var *palleszens* Ribaut: 1♂ dry.

Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - Forma typica: 3♀♀ dry - phot. 3,618-3,619: ♀ and ♀ wings - On the high part of the canopy (3-4 m from the ground) with the previous species (*albostrigata*, editor's note).

Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - (Slope of Calizzano) - m 650-700 - H.P. *Quercus pedunculata* - var *palleszens*: 1♀ not prepared.

Typhl. 303 - PIEDMONT - Turin - (Botanical Garden, University of Turin) - 23-V-61 - H.P. *Acer rubrum* - var *palleszens* Ribaut: 5♂♂ 1♀ dry - H.P. *Acer palmatum* - var *palleszens* Ribaut: 18♂♂ 14♀♀ dry. Presence of a great number of adults and last instar nymphs! Many adults reared in captivity. All ♂♂ are of a lemon yellow colour, while the ♀♀ are creamy. On the same host plant (with very indented and hard leaves, but not like those of *A. campestre*) I did not find other species of typhlocybrids.

Typhl. 342 - PIEDMONT - Turin - (Pino Torinese) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus*: 1♀ not prepared.

Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione House) - m 600-700 - 24-VIII-62 - H.P. - *Castanea sativa*: ? 2♂♂ 9♀♀ dry - !!! (1♂ parasitized by *Aphelopus* has somatic characters and colour of a ♀) - phot. 10,313: ♂ (completely yellow) length mm 3.80; 10,314: 1♀ forma *palleszens* (median lines pink, lateral lines yellow, tibiae with light brown spots) length mm 4.20; 10,315: 1♀ forma *palleszens* (median lines of a pale yellow colour, spots on tib-

iae faintly represented) length mm 4.20 - N.B.: the ♀ ♀ of both species (*A. ?albostriella*, editor's note) were distinguished only by the colour of abdomen and elytrae and by the spots on the tibiae. Size and dimensions of the single body parts are the same. The green colour of the elytra of the f. *viridis* (*A. albostriella*, editor's note) (accentuated by the black colour of the body) turns rapidly to intense yellow in dead specimens.

- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Bignone Mountain) - m 800 - 14-IX-62 - H.P. *Acer campestre* (very depigmented leaves): 1 ♀ dry.
- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Betula alba* (near *S. caprea*, *Corylus*, *Fagus*, etc.): 1 ♂ dry.
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Ulmus campestris*: 1 ♀ not prepared.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Carpinus betulus*: 1 ♂ 2 ♀ ♀ dry.
- Typhl. 598 - PIEDMONT - Forno di Coazze (TO) - m 950 - 14-IX-80 - H.P. *Corylus avellana*: 1 ♀ not prepared.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 18-VIII-81 - H.P. *Quercus cerris* (+ *Q. pubescens*): 1 ♀ dry - H.P. *Quercus cerris* (shoots grown in coppice with ash; close to *Prunus spinosa*, etc.): 2 ♀ ♀ dry.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road of Ovada) - 16-VIII-81 - H.P. *Acer campestre* (close to a bush of *Carpinus betulus* and a wood of *Ulmus*, *Alnus glutinosa*, *Quercus*, etc.): 5 ♀ ♀ dry (1 ♀ phot. (...) Wild, length mm 4.2).
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Quercus cerris* and *Q. pubescens*: 1 ♂ 1 ♀ dry.
- Typhl. 646 - LIGURIA - Sanremo (IM) - m 200 - (San Romolo stream, Farm Mucci, Isola Superiore) - 23-VIII-82 - H.P. *Alnus glutinosa*: 2 ♀ ♀ dry.
- Typhl. 698 - PIEDMONT - Gassino Torinese (TO) - 8-VII-84 - (Leg. Santoro) - H.P. *Prunus cerasus*: 1 ♀ not prepared.
- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Acer palmatum* (depigmented leaves): 1 ♂ dry - H.P. *Acer campestre* (corso Raffaello) - (Leg. Demichelis): 2 ♂ ♂ 2 ♀ ♀ not prepared (1 ♀ ovipositing).
- Typhl. 700 - PIEDMONT - Almese (TO) - (Susa valley) - 15-VII-84 - H.P. *Prunus avium*: 1 ♂ not prepared.
- Typhl. 704 - LIGURIA - Chiusavecchia (IM) - 19-VII-84 - H.P. *Ostrya carpinifolia* (before the tunnel, coming from Imperia): 1 ♂ dry (sulphur yellow colour, not usual. In the zone there are: *Alnus*, *Corylus*, *Quercus* and other broadleaf trees) - (Cfr. Typhl. 710).
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Heights dominated by karstic zones. Valley run by the Tanaro stream. Broadleaf trees present: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Ostrya carpinifolia*: 2 ♂ ♂ dry (sulphur yellow colour like that of Typhl. 704) - H.P. *Acer campestre* (along the river Tanaro of Upega): 3 ♂ ♂ 6 ♀ ♀ dry.

- Typhl. 714 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Corylus avellana*: 9 ♀ ♀ dry (4 individuals with brown spots on the tibiae, 5 individuals without brown spots on the tibiae) - N.B.: it is a population of toughened integument, also chromatically: all ♂ ♂ are already missing.
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* - Forma typica: 1 ♂ 1 ♀ not prepared.
- Typhl. 719 - GERMANY - Hamburg, W., Park "Planten un Blomen" - 24-VIII-84 - (XII International Congress of Entomology). Leg. Vidano & Arzone - H.P. *Acer pseudo-platanis* (or ?*pseudoplatanus*): 1 ♂ 2 ♀ ♀ dry (dryinidized: ♂ "feminized") - H.P. *Tilia intermedia* Cultivar (data of the label). Leaves covered with honeydew (*E. tiliae*) and sooty moulds. - Forma *pallescentis*: 4 ♂ ♂ 17 ♀ ♀ dry (4 ♂ ♂ 12 ♀ ♀ dryinidized - ♂ ♂ feminized) - Forma typica: 2 ♀ ♀ dry.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Betula pendula* (young and luxuriant plants, close to *Fagus*, *Salix*, and *Rubus*, in a grassy and humid plain): 1 ♀ dry.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - (Slope of Garessio) - m 1,000 - H.P. *Castanea sativa* (low part of the canopy along the road): 9 ♂ ♂ 14 ♀ ♀ dry.
- Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (close to *Q. ilex*): 1 ♂ not prepared.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the river Tanaro): 2 ♀ ♀ not prepared.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all luxuriant shrubs and canopies): 1 ♀ dry.

BOXES 2-3

Tribe DIKRANEURINI McAtee, 1926

GENUS *ERYTHRIA* Fieber, 1866*ERYTHRIA alpina* (Vidano, 1959)

- Typhl. 240 - PIEDMONT - Pra Martino - m 1,000 - Villar Perosa (TO) - 21-V-58 - H.P. *Thymus serpyllum*, *Hieracium pilosella* (very depigmented), *Vicia cracca*. Vegetation protected by dry chestnut leaves beneath small *Pinus sylvestris* plants - N.B.: the vegetation is very behind compared with that of the plains - 10 ♀ ♀ in a plastic tube, no ♂ ♂. ♂ ♂ found by dr Sampò on 21-VII-58. This species should have overwintered in the adult stage.
- Typhl. 253 - PIEDMONT - Colle del Lys (TO) - m 1,300 - 15-VII-58 - H.P. *Hieracium pilosella* (very depigmented leaves), *Thymus serpyllum*: 5 ♀ ♀ (in a plastic tube). Found ♂ ♂ on 25 July 58 by dr Sampò.
- Typhl. 294 - PIEDMONT - Frais (TO) - (Above Chiomonte) - (Dora Riparia Valley) - m 1,500-1,600 - 14-X-60 - H.P. *Thymus serpyllum* and other different herbaceous plants at the base of big rock massifs in the middle of meadows among conifers (*Larix* and

Abies alba): 14♂♂ 10♀♀ in a plastic tube - To Knight: 2♂♂ 2♀♀ November 1965.

Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione House) - m 600-700 - 24-VIII-62 - H.P. *Thymus serpyllum* and others: 1♂ 5♀♀ dry - This species is represented also on many other botanical species, including *Vaccinium myrtillus* (leaves close to the ground).

Typhl. 457 - PIEDMONT - Cesana (TO) - (road of Sestriere) - m 1,500 - 30-V-63 - H.P. *Thymus serpyllum*, *Hieracium* sp., among shrubs of *Rubus idaeus* (beneath larches): 1♂ 3♀♀ dry (♂ parasitized by a pipunculid).

Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Thymus serpyllum ovatus*: 1♂ 1♀ dry + ♂♂♀♀ not prepared + nymphs.

Typhl. 531 - PIEDMONT - (Leg. dr Sampò) - Colle delle Finestre (TO) - m 2,100 - Slope of Fenestrelle, near the first fountain (trough) - 22-IX-64 - H.P. *Thymus serpyllum* v *ovatus* (near small shrubs of *Juniperus*): 1♂ 7♀♀ dry.

Typhl. 563 - TRENTINO-ALTO ADIGE - Piano delle Fugazze (TN) - m 1,150 - 23-VIII-66 - H.P. *Thymus serpyllum* (At the base of shrubs of *Corylus*, *Rosa*, *Fraxinus*, etc. in grassy clearings among *Fagus*) - (as *Erythridea*): 2♂♂ 2♀♀ dry + 1♀ reared from a nymph.

Typhl. 592 - PIEDMONT - Bibiana (TO) - m 410 - Park of the Castle (Marquise Cattaneo) - m 460 - 29-VIII-80 - H.P. *Viola canina* v *sylvestris*, *Hedera helix* (upright) in understorey (thyme missing): 5♂♂ 3♀♀ dry. Phot. (...): ♂ mm 2.5; (...): ♀ mm 2.5; (...): ♂ mm 2.5 more pigmented dorsally, + opened wing.

ERYTHRIA aureola (Fallén, 1806)

Typhl. 549 - TRENTINO-ALTO ADIGE - Passo del Tonale (Slope of Trentino) (TN) - m 1,800 - 21-VIII-66 - Base of *Alnus viridis* shrubs in an Alpine pasture - H.P. *Thymus serpyllum*: ? 12♀♀ dry - phot. 15,115: ♀ dorsal, length mm 2.85.

Typhl. 551 - TRENTINO-ALTO ADIGE - Vermiglio (TN) - m 1,250 - 21-VIII-66 - H.P. *Thymus serpyllum* (tufts along the track): 4♂♂ 2♀♀ dry - phot. 15,116: ♂ dorsal, length mm 2.85; 15,117: ♀ dorsal, length mm 2.65.

Typhl. 552 - TRENTINO-ALTO ADIGE - Mezzana (Val di Sole) (TN) - m 900 - 22-VI-II-66 - H.P. *Thymus serpyllum* (*ovatus*): 12♂♂ 7♀♀, 3 nymphs dry (5♂♂ parasitized by ?*Aphelopus* they have somatic characters of ♀♀: prepared separately).

Typhl. 555 - TRENTINO-ALTO ADIGE - Passo della Mendola (BZ) - m 1,363 - 22-VI-II-66 - (Roadside, going up from Fondo) - H.P. *Teucrium montanum* (m 1,300): 2♂♂ 5♀♀ dry [*E. aureola* was represented above all on *Thymus serpyllum*. However the collected specimens remained alive, like those of *D. teucrii* (collected on the same plant, editor's note), until the day of preparation (28-VIII) on vegetation of *T. montanum* conserved turgid in glass tubes].

Typhl. 556 - TRENTINO-ALTO ADIGE - Pianizza di Sopra (BZ) - (Along the road Passo della Mendola-Bolzano. Zone with chestnuts) - m 500! - 22-VIII-66 - H.P. *Thymus serpyllum* (*ovatus*) and *Teucrium montanum*: 4♀♀ dry.

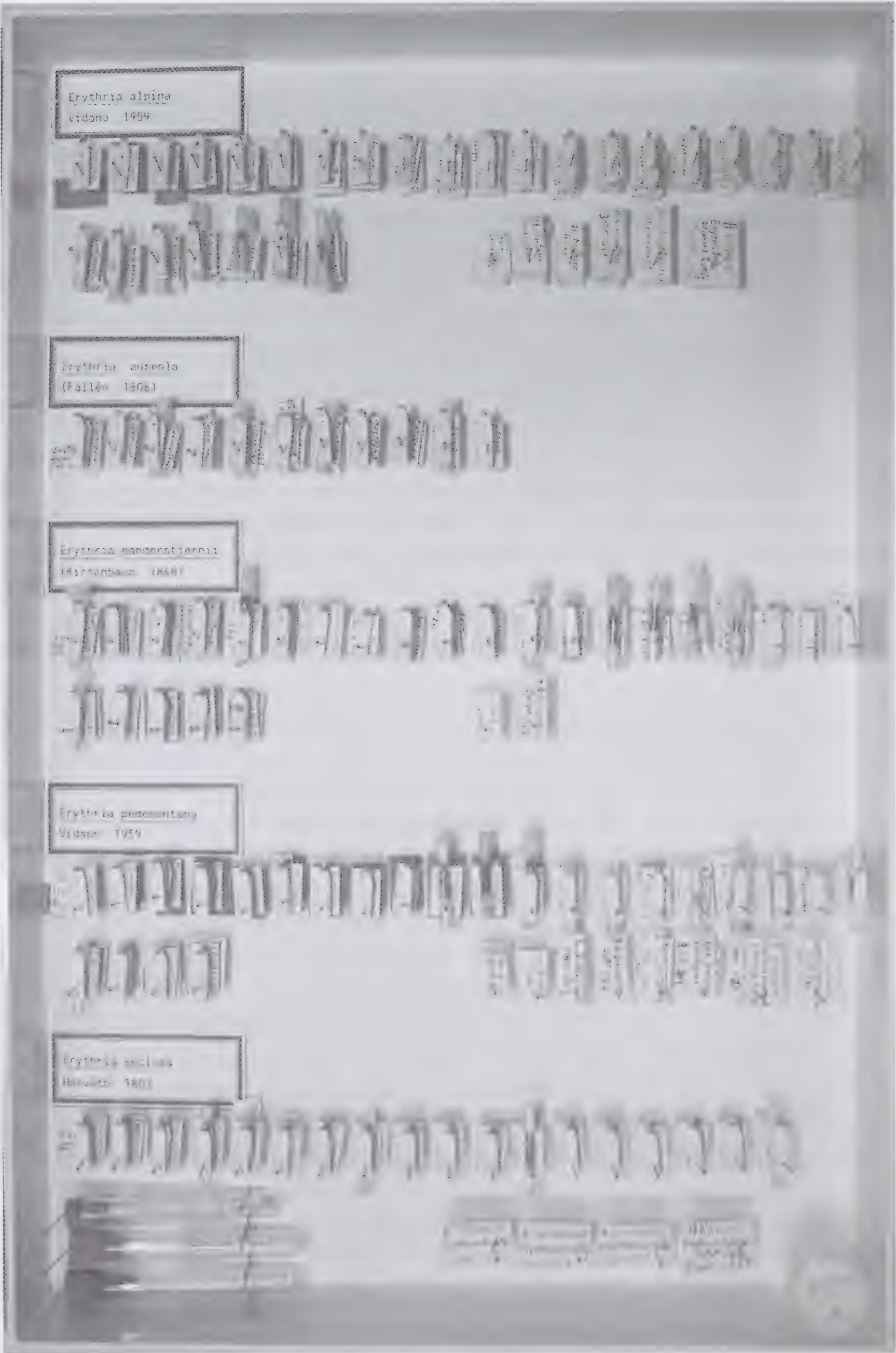


Fig. 1 - Box no. 2 - *Erythria* spp.

- Typhl. 557 - TRENTINO-ALTO ADIGE - Montagna (BZ) - (Last curve of the road Ora-Cavalese) - m 500 - 22-VIII-66 - H.P. *Thymus serpyllum*: 2 ♀ ♀ dry (on nearby plants of *Globularia willkommii* *E. aureola* was not present).
- Typhl. 558 - TRENTINO-ALTO ADIGE - Levico (TN) - (road of Vetriolo) - m 600 - 23-VIII-66 - H.P. *Thymus serpyllum*: 4♂♂ 4♀♀ + 1 nymph dry.
- Typhl. 559 - TRENTINO-ALTO ADIGE - Levico (TN) - (road of Vetriolo) - m 1,000 - 23-VIII-66 - H.P. *Thymus serpyllum* (fagetum): ♂♂ ♀♀ and nymphs - 1♂, 2 nymphs dry.

ERYTHRIDEA ferrarii (Puton, 1877)

- Typhl. 34 - PIEDMONT - Forno Alpi Graie (TO) - (Fountain next to the Stura stream) - 28-IX-56 - H.P. *Urtica dioica* and...: I collected a single ♂ adult prepared dry. Presence of quite a number of adults, localized in a restricted very humid area, close to a fountain next to the Stura stream where some *Urtica dioica* shrubs thrive.
- Typhl. 35 - PIEDMONT - Forno Alpi Graie (TO) - (Fountain next to the Stura stream and a small bridge on the Stura) - 28-IX-56 - H.P. *Urtica dioica*: 1 adult.
- Typhl. 129 - (Cfr. Typhl. 34 and 155) - (Melichar, p. 319: *Erythria Ferrarii* Puton) - PIEDMONT - Forno Alpi Graie (TO) - m 1,300 - 10-VII-57 - H.P. *Thymus serpyllum* v *lanuginosus* and v *ovatus*: I collected only 10 ♀♀, 5 dry, 5 in alcohol (no ♂♂). Some juveniles present too: I collected a 5th instar nymph (in alcohol) phot. 4,140. The presence of only ♀♀ makes one suppose that they are survivors of the 1st generation. The juveniles (observed 3rd and 4th instar nymphs) should belong to the 2nd generation. Phot. 4,139: ♀ dorsal; 4,141: ♀ with extended wing and tegmen; 4,142: isolated tegmen and wing; 4,180: ovipositions - Ovipositions. Mostly in the main vein and on its sides, above all close to the stem. There are also some eggs freely inserted in the leaf blade. Generally made on the lower leaf page. 1-2 per leaf. Ovipositions in the apical part of the small stalks are not rare, 1-2 per stalk.
- Typhl. 155 - PIEDMONT - Forno Alpi Graie (TO) - 1-VIII-57 - H.P. *Thymus serpyllum* v *ovatus*, v *lanuginosus*, *Euphrasia officinalis* (Scrophulariaceae), *Silene nutans* (Caryophyllaceae): 12♂♂ (6 in alcohol, 6 dry), 13♀♀ (7 in alcohol, 6 dry), 8 last instar nymphs in alcohol - 2♂♂ 2♀♀ dry to Dlabola - phot. 5,255: ♂; 5,256: 2♂♂. It is confirmed that on 10-VII-57 (cfr. Typhl. 129) there were only first generation ♀♀ while the ♂♂ had already all disappeared. Presently there are ♂♂ and ♀♀ in the same number, all of the 2nd generation, the adults of which continue to emerge gradually. Besides the last instar nymphs collected, there were juveniles of all instars. The aedeagus has lateral flagelli differing from those drawn by Ribaut; the subapical teeth of the aedeagus are also differently placed. 2 **drawings** of the aedeagus.
- Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Thymus serpyllum* v *lanuginosus*, *T. serpyllum* v *ovatus*, *Lathyrus montanus*, *Euphorbia dulcis*, *Ajuga reptans* (in the understorey, along a drystone wall and at the base of rocks also in the nearby small meadows): 24 adults of which 10♂♂ (3 dry, 7 in alcohol), 14♀♀ (3 dry, 11 in alcohol).

- Typhl. 217 - PIEDMONT - Chialamberto (Forno Alpi Graie) (TO) - (Lanzo valleys) - 10-X-57 - Arid wasteland, among rocks, on the orographic left of the road, between Chialamberto and Magliere - H.P. *Thymus serpyllum* v *Reineggeri*, small plants with very depigmented leaves, at the base of rocks. Dry environment, not protected by tree canopies. (Presence of several adults): 7♂♂ 2♀♀ dry.
- Typhl. 218 - PIEDMONT - Cantoira (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Thymus serpyllum* v.....(near a track and South of a rock in the middle of a meadow): 2♀♀ dry.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. N.N. (on the ground): 1♀ dry.
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - m 1,028 - 21-IX-59 - H.P. *Thymus serpyllum*, *Prunella vulgaris*, *Vicia cracca*, etc. (understorey of *Larix* and nearby): ♂♂ and ♀♀ dry. Many specimens have a supplementary vein on the elytra. I sent to Knight: 1♂ 2♀♀ November 1965.
- Typhl. 419 - LIGURIA - Passo di Tegli (IM) - m 1,000 ~ - (Some kilometres before the Pass, coming from Rezzo) - 14-IX-62 - H.P. *Thymus serpyllum*, *Teucrium chamaedrys*, *Teucrium scorodonia*, *Lavandula spica*, *Plantago cynops* (on the road close to the guardrail): 3♂♂ 4♀♀ dry (+ juveniles on *T. scorodonia*). **Drawings** of aedeagus and pygofer lobes.
- Typhl. 420 - LIGURIA - Passo di Tegli (IM) - m 1,387! - 14-IX-62 - H.P. *Teucrium chamaedrys*, *Thymus vulgaris*: 1♀ dry.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North Slope, shaded understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. *Hieracium pilosella*, *Prunella vulgaris*, *Lathyrus montanus*, *Vicia cracca*, *Vicia* sp.: 3♂♂ 4♀♀ dry.
- Typhl. 504 - LIGURIA - (Cfr. Typhl. 541 and 423) - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - m 600~ - ("Belvedere") - 6-VIII-64 - H.P. *Teucrium chamaedrys*, *Thymus serpyllum*, etc. (under small oaks): 3♂♂ 1♀ dry.
- Typhl. 515 - TUSCANY - Pianosinatico - Cutigliano (PT) - m 800-900 - 18-VIII-64 - H.P. *Thymus serpyllum* v ?, *Galium pusillum*, *Hieracium murorum* v *vulgatum*: 2♂♂ 5♀♀ dry.
- Typhl. 541 - (Cfr. Typhl. 504) - LIGURIA - Finale Pia, inland of Savona (SV) - 4-VIII-66 - H.P. *Thymus serpyllum*: 2♀♀ dry.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Teucrium scorodonia* (small plants grown in the shadow, under *Fagus*): 10♂♂ 11♀♀ dry + nymphs. ♂ and ♀ and nymph photographed - Isolated plants, robust, among *Rubus* along the mountain road.
- Typhl. 738 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - (Slope opposite to that of cableways) - m 1,500 - H.P. *Vaccinium*, *Teucrium scorodonia*, *Hieracium*, *Veronica*: 10♂♂ 10♀♀ not prepared + nymphs - (no *manderstjernii*!!! Cfr. Typhl. 736).
- Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Origanum vulgare*: 2♂♂ 2♀♀ not prepared.

ERYTHRIA manderstjernii (Kirschbaum, 1868)

- Typhl. 247 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,650 - 17-VI-58 - H.P. *Saxifraga autumnalis bryoides* (Saxifragaceae), *Tussilago farfara* (Compositae, depigmented leaves), *Bellidiastrum michelii* (Compositae, leaves idem), *Leucanthemum vulgare montanum* (Compositae, leaves idem), *Crepis conyzifolia* v *grandiflora* (Compositae, leaves idem), *Rhinanthus crystagalli minor* (Scrophulariaceae, leaves idem) - (as *Dikraneura manderstjernii* Kirschbaum): 1 ♂ 13 ♀ of which 5 ♀ and 1 ♂ dry, 8 ♀ in a plastic tube - phot. 4,880: ♀; 4,881: wings.
- Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,620 - 28-VIII-58 (collectings by dr Sampò) - H.P. *Dryas octopetala*, *Bellidiastrum michelii*, *Helianthemum chamaecistus* (*vulgare*) - (as *Dikraneura manderstjernii* Kirschbaum): presence of a lot of adults (♂ ♂ and ♀ ♀ and juvenile stages on plenty plant species) - (Cfr. Typhl. 247) - I collected 9 ♂ ♂ (6 in alcohol, 3 dry), 7 ♀ ♀ (5 in alcohol, 2 dry). Many nymphs of 3rd, 4th and 5th instar (some in alcohol, others reared) - 3-IX: ♂ ♂ ♀ ♀ (a dozen) emerged from rearings and some nymphs are put in alcohol.
- Typhl. 269 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) track of Levionaz - (Valsavaranche) - m 1,600 - 26-IX-58- (collectings by dr Sampò) - H.P. *Helianthemum vulgare* (understorey) (as *Dikraneura manderstjernii*): 6 ♂ ♂ 6 ♀ ♀ (in a plastic tube) - The ♂ ♂ have the head, pronotum and elytra entirely drawn with blackish brown; the ♀ ♀ are instead relatively light dorsally. Both ♂ ♂ and ♀ ♀ are black ventrally, with the distal edge of the urosterni of an ochre colour (sometimes with red infiltrations) - Levionaz (AO) - (m 2,250) - H.P. polyphyte meadow (understorey): 1 ♀ dry - ! 1 ♂ (dr Sampò - 30-X-58!) dry.
- Typhl. 283 - (Cfr. Typhl. 247) - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,650 - 20-V-59 - H.P. *Saxifraga autumnalis* - (as *Dikraneura Manderstjernai*): 12 ♀ ♀ in a plastic tube.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - (as *Dikraneura*) - H.P. *Plantago lanceolata*, *P. media*, *Prunella vulgaris*, *Trifolium alpinum* and other herbaceous plants of meadows near to *Berberis* hedges: ♂ ♂ and ♀ ♀ + juveniles not prepared - Chevrère (AO) - (m 1,120) - H.P. *Thymus serpyllum* (on a small drystone wall, close to thickets of broadleaves and larches): ♂ ♂ and ♀ ♀ not prepared.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre Dame (AO) - (Rhêmes valley) - m 1,725 - 13-IX-59 - H.P. *Leontodon pyrenaicus*, *Plantago media*, *Chaerophyllum hirsutum*, *Trifolium alpinum*, *Thymus serpyllum* and various herbs of meadows and understorey of larches, such as: *Helianthemum vulgare*, *Chrysanthemum leucanthemum*, *Ranunculus montanus*, etc. - (as *Manderstjernai*): a lot of ♂ ♂ and ♀ ♀ (plastic tube). (Cfr. Typhl. 342) - Proussaz (AO) - m 1,397 - H.P. *Thymus serpyllum*: ♂ ♂ and ♀ ♀ not prepared.
- Typhl. 343 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre Dame (AO) - (Rhêmes valley) - m 1,725 - 19-IX-61 - H.P. various herbaceous plants under conifers

and shrubs: ♂♂ and ♀♀ not prepared.

- Typhl. 345 - AOSTA VALLEY - Gran Paradiso National Park - Pont (AO) - (Valsavaranche) - m 1,972 - 19-IX-61 - H.P. various herbaceous plants protected by rocks and shrubs (of *Alnus viridis*) near the hotel Fior di Roccia - Presence of a great number of adults - (as *Manderstjernai*): 2♂♂ 15♀♀ dry.
- Typhl. 520 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,500 - 29-VIII-64 - H.P. *Saxifraga bryoides* - (as *Manderstjernai*): ♂♂ and ♀♀ (adults reared from nymphs in glass tubes - Leg. Sampò) - 1♂ 3♀♀ dry.
- Typhl. 531 - PIEDMONT - (Leg. dr Sampò) - Colle delle Finestre (TO) - m 2,100 - Slope of Fenestrelle, near the first fountain (trough) - 22-IX-64 - H.P. *Saxifraga bryoides*, *Trifolium* etc. (among *Rhododendron* + *Salix* and *Vaccinium*) in the Eastern part - (as *Manderstjernai*): 2♂♂ 1♀ dry.
- Typhl. 532 - AOSTA VALLEY - Mount Blanc - (dr Sampò) - Val Veny (AO) - 28-IX-64 - H.P. *Thymus serpyllum* v *ovatus* "Calcareous pyramids" - m 2,300: 3♂♂ 7♀♀ dry (♂♂ very dark on the head) - Combal lake - m 2,000, at 100 metres from the snowfield! - H.P. *Trifolium* sp., *Saxifraga bryoides* - (as *Manderstjernai*): 5♂♂ 4♀♀ dry.
- Typhl. 547 - LOMBARDY - Camonica valley - Ponte di Legno (BS) - Passo del Tonale (4th curve) - m 1,400 - Mixed broadleaf and conifer wood - 21-VIII-66 - H.P. *Thymus serpyllum*, *Hieracium* sp., *Viola* sp. - (as *Manderstjernai*): 4♂♂ 1♀, 1 nymph dry.
- Typhl. 553 - TRENTINO-ALTO ADIGE - Meledrio valley (TN) - m 900 - (Locality between Dimaro and Campo Carlo Magno; wood of conifers and broadleaf shrubs) - 22-VIII-66 - H.P. *Thymus serpyllum* (*ovatus*) - (as *Manderstjernai*): 1♂ 3♀♀ dry.
- Typhl. 554 - TRENTINO-ALTO ADIGE - Campo Carlo Magno (TN) - m 1,700 - 22-VI-II-66 - H.P. *Thymus serpyllum* (?*angustifolius*) - (as *Manderstjernai*): 4♂♂ 5♀♀ dry (3♂♂ 5♀♀ parasitized by dryinids).
- Typhl. 560 - TRENTINO-ALTO ADIGE - Vetriolo (TN) - m 1,500 - 23-VIII-66 - H.P. *Thymus serpyllum*, *Veronica urticifolia*, *Hieracium* sp., *Trifolium* sp., etc. (under conifers) - (as *Manderstjernai*): 2♂♂ 6♀♀ dry.
- Typhl. 563 - TRENTINO-ALTO ADIGE - Piano delle Fugazze (TN) - m 1,150 - 23-VIII-66 - H.P. *Thymus serpyllum* (at the base of shrubs of *Corylus*, *Rosa*, *Fraxinus*, etc. in grassy clearings among *Fagus*) - (as *Manderstjernai*): 1♀ dry.
- Typhl. 569 - PIEDMONT - Moncenisio Col (TO) - m 2,084 - Karstic zone with foibas and small dolinas, between the road and the lake - 21-IX-66 - H.P. *Thymus serpyllum* v ? - (as *Manderstjernai*): 5♂♂ 5♀♀ dry.
- Typhl. 589 - PIEDMONT - Moncenisio Col (TO) - 10-IX-78 - H.P. *Thymus serpyllum*: 1♂ dry.
- Typhl. 663 - PIEDMONT - Sestriere (TO) - m 2,035 - 19-VIII-83 - H.P. *Helianthemum nummularium* ssp. *tomentosum*, *Vaccinium myrtillus*, *Achillea*, *Geranium*, *Thymus serpyllum*: 2♀♀ (1♀ reared from nymph).
- Typhl. 721 - SWITZERLAND - Schatzalp - Davos - GR, CH - m 1,800 - 29-VIII-84 - H.P. *Vaccinium myrtillus*, *Thymus serpyllum*, *Molinia caerulea* (understorey of conifers): 2♀♀ dry.

- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road: height m 1,400 - H.P. *Hieracium*, *Vaccinium*, *Veronica*, *Ballota nigra* (in understorey of *Fagus*): 10♂♂ 10♀♀ dry - No *E. ferrarii* - (Cfr. Typhl. 738).
- Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,500 - H.P. *Carum carvi* (caraway of meadows): 2♂♂ 12♀♀ not prepared.
- Typhl. 885 - PIEDMONT - Bardonecchia (TO) - Rochemolles - 31-X-86 - (Sunny day without wind) - m 1,500 - (Dam) - H.P. *Tussilago farfara*, *Thymus serpyllum*: 1♂ dry.

ERYTHRIA pedemontana Vidano, 1959

- Typhl. 132 - PIEDMONT - Cantoira (Forno Alpi Graie) (TO) - 10-VII-57 - H.P. *Cannabis sativa* - *Empoasca (pedemontana n.sp.) kontkaneni* Ossiannilsson 1949. (gr. *E. flavescens*) (Cfr. Typhl. 153 and 189): I collected 12 adults: 3♂♂ (1 dry, genitalia prepared) 2 in alcohol and 9♀♀ (3 dry, 6 in alcohol) - phot. 4,145: ♀ dorsal; 4,146: tegmen and wing of a ♀. Green colour like *E. pteridis* that turns to yellowish a little after the death of the insect. Head, pronotum and scutum with the usual small white spots typical of this group. 2 round points on the vertex very constant (at least in the insect alive).
- Typhl. 139 - (Cfr. Typhl. 156, 166 and 215) - PIEDMONT - S. Paolo Cervo (BI) - 17-VII-57 - H.P. *Veronica urticifolia* - (as *Dikraneura*) - [Melichar, p. 318/319: *Erythria Montandoni* Puton, Karpathen, Tirol (Fieber)] - 6 last instar nymphs. Adapted to *Veronica chamaedrys* (Botanical gardens). Nymphs stocky, similar to those of *D. micantula* yellowish white with light spots and diverging on meso- and metanotum - 18-VII-57 first 2 adults emerged; 20-VII another adult emerged; 21/23-VII last 3 adults emerged. In total: 4♀♀ (2 dry, 2 in alcohol) and 2♂♂ (in alcohol) - phot. 4,217: ♀ dorsal; 4,218: tegmen and wing - **Drawing** of a nymph - It differs from Ribaut's description: vertex more acute, above all in the ♀ "Arabesques" of the pronotum; present in the ♀ too. Scutum in the middle with a longitudinal brown black spot particularly in the ♂. Scutellum brownish in the individuals definitively pigmented. Tegmina with light veins and yellow-ferrugineous cells more pigmented in the ♂ above all in three equidistant points of the clavum in contact with the commissural edge, before and behind the wax area in the apical cells in particular the external one. Inner apical cell with a big blackish brown spot in a proximal position. Tegmina covered with abundant wax. The inner vein of the clavum is transverse and originates from the intermediate one almost near the middle. Waxy wing with the folded lobule unusually small. Forno Alpi Graie (TO) - 1-VIII-57 - Presence of many *Veronica urticifolia* plants, but no trace of *D. Montandoni* that is present instead on *Hieracium*. Cfr. Typhl. 156].
- Typhl. 153 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - H.P. *Cannabis sativa* - *Empoasca (pedemontana n.sp.) kontkaneni* Ossiannilsson, 1949 - (Cfr. Typhl. 132 and 189): presence of few adults, in great majority ♂♂, but several juveniles of all instars (but the nymphs of the last 2 instars predominate). Therefore the 2nd generation is getting accomplished in these days on hemp. This host plant is

ripening and in 1-2 weeks time it will be mown. Reared from 4th and 5th instar nymphs 13♂♂ (9 in alcohol, 4 dry) and 3♀♀ (1 in alcohol, 2 dry). 2 5th instar nymphs dry.

Typhl. 156 - (Cfr. Typhl. 139, 166, 215) - PIEDMONT - Forno Alpi Graie (TO) - 1-VI-II-57 - H.P. *Hieracium prenanthoides* - (Collected by dr Sampò) - Leaves of the basal rosette and some caulinar leaves with small and isolated decolorophyllated areas, very white if observed from the upper page, but very obvious also in transparency or if seen from the lower page. I collected 4 nymphs: 3 last instar ones and 1 of the penultimate instar - 3-VIII-57 1 adult emerged (♂), in alcohol - In alcohol also 2 nymphs and some exuviae - 5-VIII-57 two adults emerged (1♂ 1♀), dry.

Typhl. 166 - (Cfr. Typhl. 139, 166 and 215) - PIEDMONT - S. Paolo Cervo (BI) - 19-VI-II-57 - H.P. *Veronica urticifolia*: (Sampò) collected 2♀♀ dry. They show well their pigments. Ferruginous red or formentino is prevailing. The wax areas are thick. The host plant has very depigmented leaves.

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Rubus fruticosus anticorum* - *Empoasca (pedemontana* Vidano) *konkaneni* Ossiannilsson, 1949: 2♂♂ - 1 dry, 1 in alcohol - (Cfr. Typhl. 132 and 153).

Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - (Lanzo Valleys) - 10-X-57 - n.sp. prope *D. Montandoni* - H.P. *Thymus serpyllum*, *Veronica urticifolia*, *Hieracium prenanthoides*, *Teucrium chamaedrys*, *Pimpinella magna*, *Centaurea uniflora*, *Chaerophyllum hirsutum*, *Euphorbia dulcis* - In understorey of *Acer pseudoplatanus*, *Cytisus laburnum*, *Pyrus aria*, etc. in a nearby meadow with *E. Ferrarii* - (Cfr. Typhl. 132, 156, 166) - Presence of plenty adults that hop if disturbed (they rarely make short flights) like *Erythridea Ferrarii*. Now they stay above all on the lower page of still green leaves of *Hieracium prenanthoides* (caulinar leaves also high on the plant) and of *Veronica urticifolia*. The leaves of these plants are very depigmented. There are still some juveniles (nymphs surely and maybe neanids too) - Meadow: *Lathyrus montanus*, *Chaerophyllum hirsutum*, *Ajuga reptans*, *Trifolium pratense*, *Antemoria dioica*, *Carduus* sp. - In the understorey 43 adults are collected, of which 19♂♂ (6 dry, 9 in alcohol, 4 in a plastic tube), 24♀♀ (6 dry, 9 in alcohol, 9 in a plastic tube). In the small meadow 13 adults, of which 7♂♂ 6♀♀ in a plastic tube with the previous ones. Both in the understorey and in the small meadow I found some adults of *E. Ferrarii* too - Light face both in the ♂ and in the ♀ with the anteclypeus brown (poorly in the ♀ and a lot in the ♂). Clavus with two longitudinal brownish white stripes close to the clavo-corial suture and with 2 big spots, one proximal, the other one median, reddish in the ♀ and reddish brown in the ♂. ♀ with pregenital urosternites different from those of *Montandoni*. Scutellum white and reddish after the cicatrix. Vertex decorated with two elongated spots diverging from the centre - phot. 4,419: ♂; 4,420: wings of a ♂ - Cfr. Ribaut 1936, figs. 560-565. Cfr. Dlabola 1954, figs. 1,358-1,360 - 5-X-64 To Knight: 2♂♂ 4♀♀; to Lindberg: 2♂♂ 2♀♀.

Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - Presence of a great number of *Dikraneura hieracii* on different herbaceous meadow plants. The understorey is almost covered with leaves and was abandoned by the insect, the traces of which remain on the surviving plants of *Veronica urticifolia* and *Hieracium prenanthoides*

- H.P. *Leontodon danubialis*, *Ajuga reptans*, *Chaerophyllum hirsutum*, *Anthriscus sylvestris* (umbellifers): 1 nymph per plant (in alcohol), ♂♂ ♀♀ adults in a plastic tube and alcohol - H.P. *Silene italica* (wall of a hut): ♂♂ ♀♀ adults in a plastic tube and alcohol - H.P. *Calluna vulgaris* (understorey): ♂♂ ♀♀ adults in a plastic tube and alcohol - H.P. *Lamium maculatum* (hedge in the shadow): ♂♂ ♀♀ adults in a plastic tube and alcohol - H.P. *Teucrium scorodonia* (at the base of a rock): 2♂♂ 1♀ in a plastic tube - H.P. *Urtica dioica*: several ♂♂ ♀♀ adults in a plastic tube and alcohol - N.B.: a total of 52 adults is collected: 10♀ ♀ 6♂♂ in alcohol; 8♂♂ 23♀ ♀ in a plastic tube; 3♂♂ 2♀ ♀ dry.

Typhl. 235 - PIEDMONT - S. Paolo Cervo (BI) - 19-V-58 - H.P. *Hieracium*, *Ranunculus*, *Thymus*!!!: 8♀ ♀ no ♂♂ - Almost certainly this species overwinters in the adult stage on the vegetation beneath the dry leaves fallen on the ground. There are only more egg-laying females. 3♀ ♀ show two apical veins of the elytra joint basally (dry); 3♀ ♀ dry too.

Typhl. 253 - PIEDMONT - Colle del Lys (TO) - m 1,300 - 15-VII-58 - H.P. *Arnica montana* (not in a sunny place, but in the shadow): 4♀ ♀ dry.

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Brunella* or *Prunella vulgaris*!!, *Silene inflata*, *Veronica chamaedrys*, *Thymus serpyllum*!!, *Alchemilla vulgaris*!, *Peucedanum petroselinum*!, *Antillis vulneraria*!, *Potentilla verna*!, *Vicia cracca*!!, *Leontodon pyrenaicus* - (as *Dikraneura hieracii* Vidano) (= *D. paradisea*) - (Cfr. Typhl. 236, 215): 5♂♂ 7♀ ♀ (dry and in a plastic tube). There are also neanids and nymphs. Many adults are found besides on herbaceous plants also on small *Alnus viridis* shrubs - Noasca-Ceresole (TO) - m 1,200-1,300 - H.P. *Thymus serpyllum*!!!: ♂♂ ♀♀ not prepared (less abundant than in Ceresole).

Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park -Piantonetto valley (TO) - m 1,450 - (Station of the cableway and Don Salvetti's apiary) - 27-IX-61 - H.P. different ones in understorey of larches and broadleaves, among ferns and blueberries: 7♂♂ 13♀ ♀ dry - Very depigmented leaves, presence of a great number of adults.

Typhl. 347 - PIEDMONT - Orco Valley (TO) - Locana m 613 - 27-IX-61 - H.P. *Prunella vulgaris*, *Ajuga reptans*: 5♂♂ 3♀ ♀ dry.

Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Thymus serpyllum*, *Bellis perennis*, *Satureja*?, *Melampyrum sylvaticum*, *Silene nutans*, *Hieracium murorum*, *Solidago virgaurea* (under chestnut coppice near the motorway bridge): 5♂♂ 4♀ ♀ dry.

Typhl. 458 bis - PIEDMONT - Alpinia (VB) - (Botanical garden near Mount Mottarone) - m ... - 3-VI-63 - H.P. ... (Cfr. Typhl. 473): 1♀ dry.

Typhl. 473 - PIEDMONT - Alpinia (Stresa) (VB) - (Cfr. Typhl. 458) - 17-IX-63 - H.P. garden plots: *Cerastium grandiflorum* W. et K., *Ajuga ?reptans*!!, *Aquilegia vulgaris*, *Prunella vulgaris* L. v. *typica* (forma *pinnatifida*) - Wild plants (outside the plots): *Betonica officinalis*, *Thymus serpyllum* v. *ovatus*, *Veronica urticifolia*, *Teucrium scorodonia*, *Vinca minor* L., *Hieracium murorum*, *Viola hirta*, *Asplenium*, *Prunella vulgaris*, *Bellis ?perennis*, (*Santolina* ...), *Scrophularia nodosa*, *Solidago virgaurea*, *Cirsium arvense*: 2♂♂ 4♀ ♀ dry. Presence of adults and all instar juveniles.

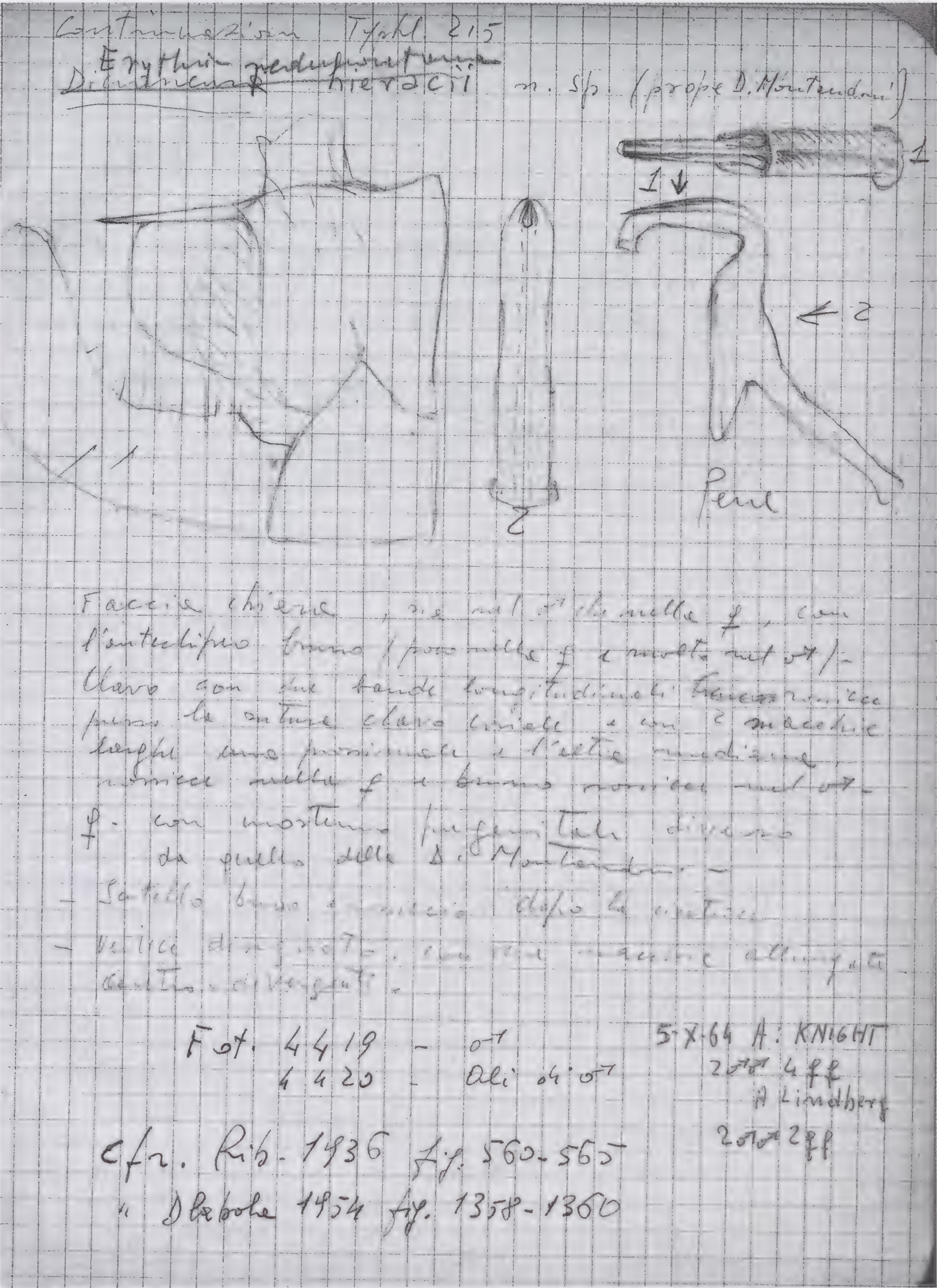
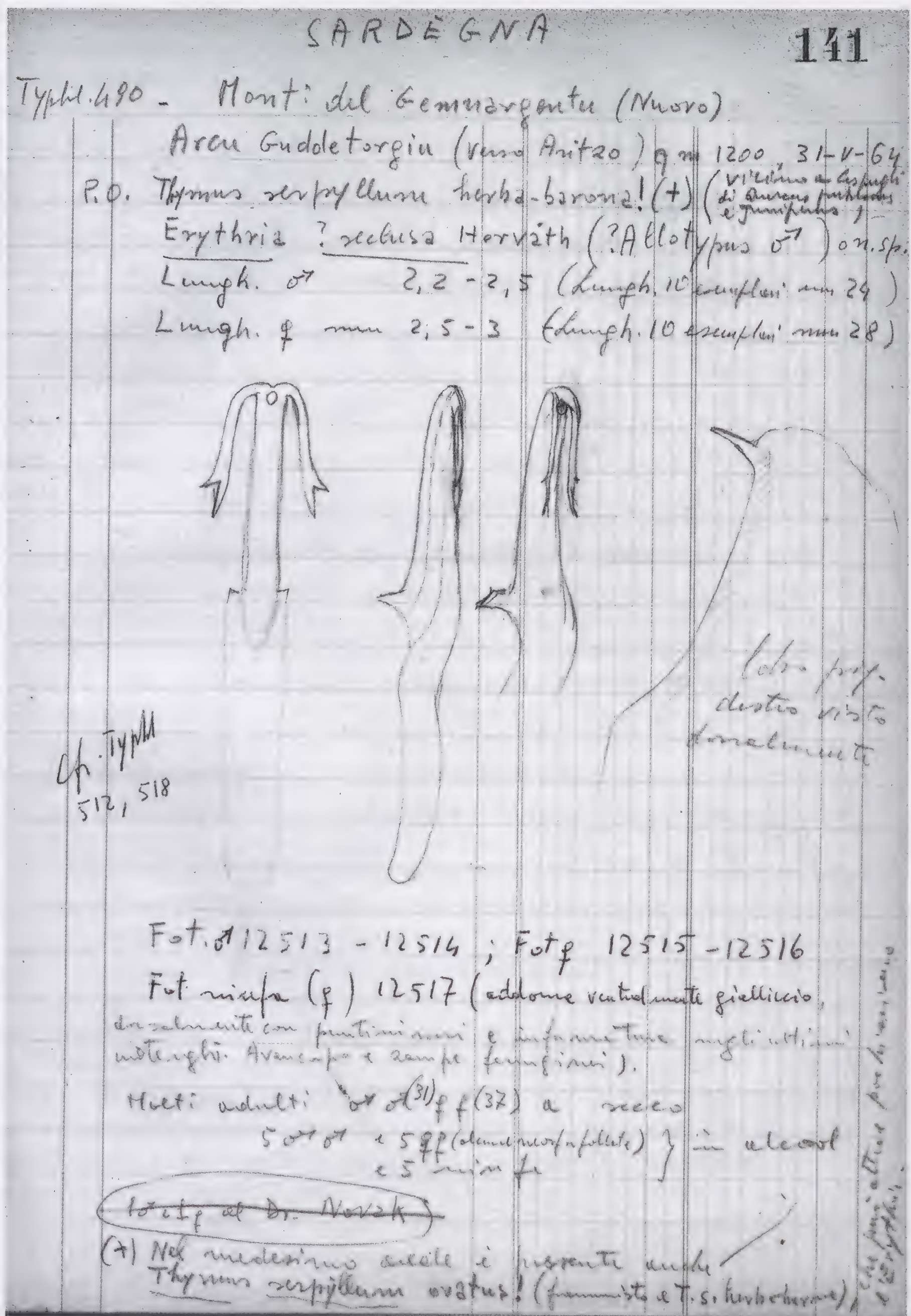


Fig. 2 - A notebook page with the sketches of the genitalia of *Erythria pedemontana* Vidano

- Typhl. 482 - PIEDMONT - Caluso (TO) - 1-X-63 - H.P. *Thymus*, *Prunella*, *Hieracium*, etc. (under *Castanea*): ♂ ♂ ♀ ♀ - 3 ♀ ♀ dry.
- Typhl. 535 - PIEDMONT - Fiano (TO) - (Hill, m 400) - Crossroad between the road of Fiano-the new road of Lanzo - 22-X-64 - H.P. *Hieracium murorum*, *Betula alba* (just born plantlets, beneath *Castanea*): 8 ♂ ♂ 8 ♀ ♀ dry.
- Typhl. 542 - AOSTA VALLEY - Champorcher (AO) - m 1,500 - 15-VIII-66 - H.P. *Thymus serpyllum*: 6 ♂ ♂ 8 ♀ ♀ dry.
- Typhl. 543 - AOSTA VALLEY - Col de Joux (AO) - (Slope of S. Vincent) - m 1,600 approx. - 15-VIII-66 - H.P. *Thymus serpyllum*, *Achillea* sp.: 3 ♀ ♀ dry + nymphs.
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Vaccinium myrtillus* and Labiatae in understory: 3 ♂ ♂ 1 ♀ dry (+ nymphs not prepared).
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - Near the cableway - 15-VIII-84 - H.P. *Vaccinium myrtillus* and Labiatae (in understory of *Fagus*, *Castanea*, *Larix*): 1 ♂ dry.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Galeopsis pubescens* (hedge in shadow under wild hazelnuts): ! 1 ♂ 1 ♀ dry - Spots on head and pronotum poorly obvious.

ERYTHRIA seclusa Horváth, 1803

- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - H.P. *Thymus serpyllum* v *herba-barona*! In the same area there is also *Thymus serpyllum* v *ovatus*! (mixed with *T. serpyllum* v *herba-barona* that however attracts very little *Erythria*) (close to shrubs of *Quercus pubescens* and *Juniperus*) - *Erythria ?seclusa* Horváth (?*Allotypus* ♂) or n.sp. - ♂ length mm 2.2-2.5 (length 10 specimens mm 24) - ♀ length mm 2.5-3 (length of 10 specimens mm 28) - (Cfr. Typhl. 512, 518) - phot. 12,513, 12,514: ♂; 12,515, 12,516: ♀; 12,517: nymph (♀) (abdomen yellowish ventrally, dorsally with small black spots and an infumation on the last uroterga. Forebody and legs ferrugineous). Many adults ♂ ♂ (31) and ♀ ♀ (37) dry - 5 ♂ ♂ 5 ♀ ♀ (some just emerged) and 5 nymphs in alcohol. *Erythria ?seclusa* - Elytra apparently brownish green (darker in the ♂ than in the ♀) when at rest on the abdomen, but really basically yellowish; those of the ♂ with the clavo-corial suture brown and infumated in the distal third in which the veins are very obvious because yellow. Metathoracical wings clipped distally, remarkably infumated, with black veins. Legs ochraceous reddish in the ♀ in which however the hind legs have often femur and tibia brownish. In the ♂ the femora are generally brown in pro- and mesothoracic legs and femora and tibiae of metathoracic ones are mostly black. Abdomen black, with the posterior margin of each urite yellow. In the ♀ the seventh urosternum and the ventral part of the pygofer lobes are yellowish. In the ♂ the genital blades are completely yellow. **Drawings.**
- Typhl. 491 - SARDINIA - Arcu Tascussì (M. Gennargentu) (NU) - m 1,250 - 31-V-64 - H.P. *Thymus serpyllum* v *herba-barona* - (*Erythria ?seclusa*): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 492 - SARDINIA - Fonni (NU) - m 1,000 - 31-V-64 - H.P. *Thymus serpyllum* v *herba-barona* - (*Erythria ?seclusa*): 2 ♂ ♂ 3 ♀ ♀ dry.

Fig. 3 - A notebook page with the sketches of the genitalia of *Erythria* ?*seclusa* Horváth

- Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2,200~ - (Near the hotel) - 16-VIII-64 - H.P. *Thymus serpyllum* v *chamaedrys*, v *angustifolius*, (*Anthemis montana* v *saxatilis*) - *Erythria ?seclusa*: 1♂ 7♀ (2♀ in alcohol) - (Cfr. Typhl. 490) - The ♂ has the aedeagus and styli involved; the pygofer lobes and its processes are more developed but do not permit to identify the species with certainty, that seems however to correspond with *E. ?seclusa* of Sardinia. (Cfr. Typhl. 490). The ♀♀ are laying eggs, because at a microscopic examination they show completely developed eggs. But there are not traces of recent ovipositions on the *Thymus* vegetation they had at their disposal (in glass tubes) from 16 to 21-VIII. The stems of *Thymus* show however some wounds and the chorion of old layings.
- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the Astronomic Observatory) - m 2,200~ - 26-VIII-84 - H.P. *Thymus serpyllum* v *angustifolius* and v *chamaedrys* - *Erythria ?seclusa*: 11♂♂ (2 in alcohol), 25♀♀ (2 in alcohol) - Length of 10♂♂ mm 2.36 (from vertex to end of elytra); max. ♂ length 2.50 (idem); min. ♂ length mm 2.20 (idem). Length of 10♀♀ mm 2.85 (from vertex to end of terebra); max. ♀ length 3.20 (idem); min. ♀ length mm 2.50 (idem); max. ♀ length (from vertex to end of elytra) mm 2.8; min. ♀ length (idem) mm 2.5 - phot. 12,965-12,966: ♂ on *Thymus serpyllum* v *angustifolia* mm 2.3; 12,967-12,968: ♀ on *Thymus serpyllum* v *chamaedrys* length mm 2.75. In the field this insect lives on *Thymus angustifolius*, provoking leaf depigmentations. Reared (in glass tubes) it depigments also *Thymus chamaedrys* - (Cfr. Typhl. 490, 512).
- Typhl. 523 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 800-1,000 - 3-IX-64 - H.P. *Teucrium montanum* (v *pannonicum*): 8♂♂ 30♀♀ (2♂♂ 3♀♀ in alcohol) - Very similar to *E. seclusa* of Sardinia and Gran Sasso, but with the process of the pygofer lobes very long and with processes of the aedeagus adherent to the shaft. This species does not appear on *Thymus serpyllum* (v), present more downstream (at heights of m 300-600) and on *Satureja montana*. Length of ♂♂ mm 2.6-2.75; length of ♀♀ mm 2.8-3.2. All specimens show the abdomen and legs very dark (compared with those of Sardinia, that have instead reddish legs). **Drawing** of the aedeagus. 5-X-64: 1♂ 2♀♀ to Wagner, to Ossiannilsson, to Lindberg.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 (near the restaurant on the road (Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina. Dolinas etc. - H.P. *Thymus serpyllum* v *chamaedrys* (in the open air!): 8♂♂ 11♀♀ + nymphs (2♂♂ 3♀♀, 2 nymphs in alcohol) (♀ parasitized by a ?pipunculid in alcohol). This species is represented besides on thymus also on the nearby *Globularia cordifolia* v *bellidifolia* turfs. Length of ♂♂ mm 2.6-3. Length of ♀♀ mm 2.8-3.2. Phot. 12,985-12,986: ♂ length mm 2.9; 12,987: ♀ length mm 3.1 on *Globularia*.
- Typhl. 526 - JUGOSLAVIJA - Same locality of Typhl. 525 - m 900 - 4-IX-64 - Very sunny karstic zone, with low *Quercus* shrubs - 2-3 Km downstream of Vaganj towards Sinj - H.P. *Globularia cordifolia* v *bellidifolia* (turfs): 18♂♂ 17♀♀ (3♂♂ 3♀♀ in alcohol) - Length of ♂♂ mm 2.6-2.75 - Length of ♀♀ mm 2.8-3.2 - To Knight: 3♂♂ 2♀♀ (November 1965).

Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,350 - Locality near Njeguši. - On the Kotor-Cetinje road - 7-IX-64 - H.P. *Globularia cordifolia* v *repens*: 2♂♂ 5♀♀ dry - Length of ♂♂ mm 2.6-2.7 - Length of ♀♀ mm 2.8-3.1 - Depigmented leaves. The insect is scarce on the nearby tufts of *Thymus serpyllum* (?v *chamaedrys*).

Typhl. 572 - JUGOSLAVIJA - (Serbia) - Suva Planina, locality Konjarnik - m 800-900 - 30-V-67 - The locality Konjarnik, about 40 Km far from Niš, is on the right orographic slope of the stream Kutina (Kutinska Reka). You get there through a narrow valley from the village of Dušnik. Karstic zone with *Quercus*, *Carpinus* (or *Ostrya*?), *Acer campestre*, *Fagus* (rare), *Syringa vulgaris*!, *Crataegus*, etc. - H.P. *Thymus serpyllum* v *chamaedrys* (with oval leaves) in grassy clearings of 100-200 m², surrounded by shrubs of *Quercus*, *Crataegus*, *Acer* - *Erythria* ?*seclusa*: 6♂♂ 6♀♀ - (1♂ and 1♀ found in copula) - 5♂♂ 5♀♀ dry - 1♂ 1♀ in alcohol - phot. 17,344: ♂ length mm 2.5; 17,345: ♀ length mm 3.1; 17,346: ♀ length mm 2.9 - Total length of 5♀♀ mm 15 (average mm 3, min. mm 2.8, max. mm 3.1) - Total length of 5♂♂ mm 13 (average mm 2.55, min. mm 2.5, max. mm 2.6) - Elytra apparently yellowish green in ♀♀ and brownish green in ♂♂, legs mainly reddish in ♀♀ and brownish in ♂♂.

Box 4

GENUS *LIGUROPIA* Haupt, 1930

LIGUROPIA juniperi (Lethierry, 1876)

Typhl. 314 - CALABRIA - Crotone (KR) - (Ente Riforma farm) - 8-VII-61 - H.P. *Cupressus sempervirens*!: 27♀♀ in a plastic tube, 1♂ dry. In the living insect, eyes emerald green, pronotum, part of scutellum and elytra (corium cells) green. In the dead insect, the eyes get black and the green parts become yellowish brown.

Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - River Simeto - m 10 - 10-VII-61 - H.P. *Cupressus sempervirens*!: 7♂♂ 13♀♀ dry + 11♀♀ reared on *Thuja* on 14-VII-61 - phot. 9,065: ♀ length mm 3.3; phot. 9,066: ♂ length mm 3.

Typhl. 327 - SARDINIA - S. Gregorio (CA) - 12-VIII-61 - (Stream with little water along the road to Muravera) - H.P. *Cupressus sempervirens*: 2♂♂ 7♀♀ not prepared.

Typhl. 351 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Karstic zone) - 1-X-61 - H.P. *Cupressus sempervirens*: 2♂♂ dry. Length mm 2.9.

Typhl. 422 ter - LIGURIA - Mortola (IM) - (Villa Hambury) - 15-IX-62 - H.P. *Cupressus sempervirens*: 5♀♀ dry.

Typhl. 528 - JUGOSLAVIJA - Kotor - Wild slope West of the town - m 50-100 - 6-IX-64 - H.P. *Cupressus sempervirens*: 5♂♂ 10♀♀ dry.

Typhl. 823 - REPUBLIC OF SAN MARINO - S. Marino - 26-VIII-85 - H.P. *Quercus* sp., *Thuja*: 2♀♀ (collected on grasses beneath: absence of *Zyginidia*, probably due to excessive drought).

Box 5

GENUS *EMELYANOVIANA* Anufriev, 1970*EMELYANOVIANA contraria* (Ribaut, 1936)

- Typhl. 545 - PIEDMONT - Sestriere (TO) - (Slope of Fenestrelle) - 19-VIII-66 - m 2,000 - Grassy slope exposed northwards, in a relatively humid environment (sparse larches) - H.P. *Helianthemum tomentosum*, very depigmented leaves (as *Dikraneura*): 9♂♂ 16♀♀ 1 nymph dry (+ 5♀♀ 1♂, 1 nymph in alcohol). To Servadei: 1♂ 2♀♀ April 1971.
- Typhl. 663 - PIEDMONT - Sestriere (TO) - (Slope of Fenestrelle) - 19-VIII-83 - m 2,035 - H.P. *Helianthemum nummularium* (subspecies *tomentosum*): det. Navone - 2♂♂ 23♀♀ - 1♀ with a puparium of a pipunculid - (Cfr. Typhl. 545) - *Helianthemum nummularium* = *H. chamaecistus* = *H. vulgare*. Det. Navone.
- Typhl. 885 - PIEDMONT - Bardonecchia (TO) - Rochemolles - m 2,100 (Dam) - 31-X-86 - Sunny day without wind - H.P. *Helianthemum ?tomentosum*: 10♀♀ (3 dry, 7 reared on *Helianthemum* in glass tube) - Dissected 2♀♀: 6 ovarioles (3+3), 12 eggs, 2 per ovariole.

EMELYANOVIANA mollicula (Boheman, 1845)

- Typhl. 4 - PIEDMONT - Caluso (TO) - 16-X-55 - (Ditch between the properties Plazio and Salvetti) - H.P. *Mentha rotundifolia* - (as *Dikraneura*): 1 single ♂ individual dry - Yellow, except the prosternum and the uroterga that are black; black spots also on pleura and urosternites.
- Typhl. 41 - PIEDMONT - Susa (TO) - (road to Ulzio) - 3-X-56 - (In a sunny place, but very humid) - H.P. *Salvia pratensis* - (as *Dikraneura*): ! 2♂♂ and 2♀♀ in alcohol, 2♂♂ 2♀♀ dry - (Determined on the base of genital characters of ♂♂ and ♀♀) - N.B.: one of the ♂♂ prepared dry shows a transverse vein in the median apical cell - H.P. irriguous polyphyte meadow in which *Salvia pratensis* is abundant (with Gramineae): ! 7♂♂ 2♀♀ in alcohol, 4♂♂ 2♀♀ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of heading of the properties Cinto, Maresciallo Garino, and Not Monti) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Dikraneura*): 1♂ 1♀ prepared dry.
- Typhl. 48 - PIEDMONT - Caluso (TO) - (Hedge of heading of the properties Cinto, Maresciallo Garino, and Not Monti) - 14-X-56 - H.P. *Carex muricata* - (as *Dikraneura*): 2♂♂ 1♀ in alcohol.
- Typhl. 50 - PIEDMONT - Caluso (TO) - (Border of the property Vidano-Plazio) - 14-X-56 - H.P. wild herbaceous plants - (as *Dikraneura*): 4♀♀ dry. Until now I have not collected one *Dikraneura* parasitized by dryinids.
- Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Prunus persica* - (as *Dikraneura*): 1♂ dry.
- Typhl. 53 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 18-X-56 - H.P. *Salvia pratensis* and Gramineae (along the municipal roadside) - (as *Dikraneura*): 2♂♂ 1♀ dry.

- Typhl. 56 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Carex cepitosa*, wild Gramineae, *Potentilla* sp. - Humid environment - (as *Dikraneura*): 1 ♀ dry.
- Typhl. 71 - PIEDMONT - Caluso (TO) - (Hedge of the heading of the properties Cinto, Maresciallo Garino) - 10-XI-56 - H.P. various herbaceous plants, under *Quercus* - (as *Dikraneura*) - (on *Mentha aquatica*): 11 ♀ ♀ not prepared. (Cfr. Typhl. 64).
- Typhl. 87 - PIEDMONT - Caluso (TO) - (Hedge of the field Tululena, along the Canal) - 5-V-57 - H.P. *Lamium maculatum*, *Stachys sylvatica* (as *Dikraneura*): 1 ♂ (maybe coming from nearby Labiatae) dry.
- Typhl. 89 - PIEDMONT - Susa (TO) - (road to Cesana) - m 600 - 9-V-57 - H.P. *Salvia pratensis* - (as *Dikraneura*): 1 ♂ 2 ♀ ♀ dry - phot. 3,898: 1 ♂ and 1 ♀ (they should be of the 1st generation).
- Typhl. 97 - PIEDMONT - Bussoleno-S. Giorio (TO) - 23-V-57 - (Cfr. Typhl. 102) - H.P. *Verbascum* sp.: presence of several individuals - Of the 9 collected 3 are ♂ ♂ (2 in alcohol, 1 dry), 6 are ♀ ♀ (5 in alcohol, 1 dry) - Of both species (*Eupteryx atropunctata*, editor's note) there are still 4th and 5th instar nymphs on the lower page of *Verbascum* leaves.
- Typhl. 105 - PIEDMONT - Salabertano (TO) - 31-V-57 - H.P. (meadow) - *Salvia pratensis* - (as *Dikraneura*): 3 ♂ ♂ 1 ♀ not prepared.
- Typhl. 106 - PIEDMONT - Ulzio (TO) - 31-V-57 - H.P. (meadow) - *Salvia pratensis* - (as *Dikraneura*): 3 ♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (Gargano) (FG) - Pension Longo - 5-VI-57 - m 600 - H.P. *Salvia officinalis* and *Mentha longifolia* - (as *Dikraneura*): 2 ♂ ♂ 5 ♀ ♀ not prepared.
- Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Locality Follocare (FG) - 6-VI-57 - H.P. humid understory - (as *Dikraneura*): 2 ♂ ♂ dry (on fern).
- Typhl. 112 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-VI-57 - H.P. wild Gramineae (headings), hedge, *Mentha* - (as *Dikraneura*): 1 ♀ dry (on *Mentha aquatica*).
- Typhl. 114 - PIEDMONT - Carignano-Salsasio (TO) - (Left of the road Carignano-Carmagnola, near the bridge on the Po) - 21-VI-57 - H.P. *Cannabis sativa* - (as *Dikraneura*): ! 1 ♂ 4 ♀ ♀ not prepared.
- Typhl. 123 - PIEDMONT - Caluso (TO) - (Salveti's vegetable garden) - 4-VII-57 - H.P. *Salvia officinalis* - (as *Dikraneura*): adults collected and adults reared from 5th instar nymphs.
- Typhl. 130 - PIEDMONT - Forno Alpi Graie (TO) - 10-VII-57 - H.P. ? - (as *Dikraneura*): 1 ♀ dry.
- Typhl. 132 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - (Cfr. Typhl. 153) - 10-VII-57 - H.P. *Cannabis sativa* - (as *Dikraneura*): 3 ♀ ♀ dry.
- Typhl. 134 - PIEDMONT - Pessinetto (TO) - (Lanzo valleys) - 10-VII-57 - H.P. *Mentha longifolia* (along a canal) - (as *Dikraneura*): 2 ♀ ♀ not prepared.
- Typhl. 137 - PIEDMONT - Caluso (TO) - (uncultivated field Tululena) - 13-VII-57 - H.P. *Artemisia vulgaris*: 1 ♂ 1 ♀ dry.

- Typhl. 141 - PIEDMONT - Caluso (TO) - 18-VII-57 - H.P. *Galeopsis* - (as *Dikraneura*): 1♂ 1♀ dry.
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 192) - (as *Dikraneura*): 5♂♂ 2♀♀ dry - 2♀♀ reared from nymphs collected on hemp.
- Typhl. 152 - PIEDMONT - Bruschi (Cantoira) (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - (as *Dikraneura*) - H.P. polyphyte meadow - *Crepis virens*, *Centaurea rotundifolia* (in *W. chinensis*), *Prunella vulgaris*, *Chrysanthemum leucanthemum*, *Ranunculus acris* - Presence of several adults (♂♂ and ♀♀ in the same ratio): 2♂♂ 2♀♀ dry - H.P. *Cannabis sativa* (close to harvest): 2♂♂ 4♀♀ not prepared (adults + juveniles).
- Typhl. 153 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 132) - (as *Dikraneura*): presence of ♂♂ and ♀♀.
- Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. polyphyte meadow - on *Salvia pratensis* - (as *Dikraneura*): several adults (1♂ 7♀♀ not prepared).
- Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of the Pension Clelia) - 17-VI-II-57 - (as *Dikraneura*) - H.P. *Parietaria officinalis* v *judaica*: 1♂ not prepared - H.P. *Amaranthus hybridus* v *patulus* (leaves clearly depigmented): 1♀ not prepared.
- Typhl. 163 - LIGURIA - Bracco (SP) - (crossroad Aurelia-Levanto) - (Baracca) - 17-VI-II-57 - H.P. *Teucrium chamaedrys* (crossroad Levanto-Deiva) - (as *Dikraneura*): 2♂♂ not prepared.
- Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Nepeta nepetella*, *Melissa officinalis* (Labiatae) - (as *Dikraneura*): adults not prepared.
- Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Satureja calamintha* - (as *Dikraneura*): 2♂♂ 3♀♀ not prepared.
- Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Artemisia vulgaris* - (as *Dikraneura*): 1♂ not prepared.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. various wild Gramineae (humid environment) - (as *Dikraneura*): ♂♂♀♀ not prepared.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. *Artemisia campestris* - (as *Dikraneura*): 5♂♂ 4♀♀ not prepared.
- Typhl. 199 - PIEDMONT - Caluso (TO) - (wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Achillea millefolium* - (as *Dikraneura*): 2♂♂ 1♀ not prepared.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Bisagno stream) - 2-X-57 - H.P. *Chenopodium album* - (as *Dikraneura*): 2♂♂ 1♀ dry.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - (as *Dikraneura*) - H.P. *Satureja calamintha* v *vulgaris*: 2♂♂ 2♀♀ not prepared - H.P. *Artemisia vulgaris*: ♂♂♀♀ not prepared - H.P. *Malva sylvestris* (basal leaves): many adults, 1♂ 1♀ dry - H.P. *Achillea millefolium*: 1♂ 1♀ not prepared - H.P. *Chrysanthemum (Tanacetum) vulgare* (basal leaves): 2♂♂ 4♀♀ not prepared.
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hill in the middle of the valley) - 8-X-57 - H.P. *Artemisia campestris* - (as *Dikraneura*): 1♂ 3♀♀ not prepared.

- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertrano, downstream from the road) - 8-X-57 - H.P. *Helianthemum ?vulgare* (Alpine pasture, depigmented leaves) - (as *Dikraneura*) - (presence of *Salvia pratensis*): 2♂♂ 3♀♀ not prepared.
- Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Verbascum* sp. (poorly depigmented leaves) - (as *Dikraneura*): some adults, 1♀ dry.
- Typhl. 222 - PIEDMONT - Pino Torinese (TO) - (Park of a villa) - 14-X-57 - H.P. *Ajuga reptans*, *Prunella vulgaris*, *Chrysanthemum leucanthemum*, *Salvia pratensis* - (as *Dikraneura*): several adults not prepared.
- Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57: presence of a great number of *Dikraneura hieracii* on different herbaceous plants of meadow and understorey, the former covered with leaves were abandoned by the insect, the traces of which remain however on the surviving plants of *Veronica urticifolia* and *Hieracium prenanthoides* - (as *Dikraneura*) - H.P. *Thymus serpyllum* v *ovatus*, along tracks and slopes: 3♀♀ not prepared - H.P. *Lamium maculatum* (hedge in the shadow): 2♀♀ not prepared.
- Typhl. 235 - PIEDMONT - S. Paolo Cervo (BI) - 19-V-58 - H.P. *Salvia pratensis*: presence of some adults and some nymphs. This species should also overwinter in the egg stage (as *Dikraneura*): 1♀ dry.
- Typhl. 239 - PIEDMONT - Ulzio (TO) - 21-V-58 - H.P. *Thalictrum flavum* - (as *Dikraneura*): 1♂ 2♀♀ dry.
- Typhl. 243 - PIEDMONT - Caluso (TO) - 31-V-58 - (as *Dikraneura*) - H.P. *Salvia officinalis*: 1♀ not prepared - H.P. *Stachys sylvatica*: 5♀♀ not prepared.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Salvia officinalis* - (as *Dikraneura*): 1♀ + 1 nymph not prepared.
- Typhl. 251 - PIEDMONT - Carignano-Villastellone-Santena (TO) - (Railway escarpment) - 30-VI-58 - H.P. *Verbascum phlomoides*: presence of several adults and juvenile stages.
- Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Phaseolus* (some plants appear affected by viruses): 1♂ 2♀♀ not prepared.
- Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Mentha longifolia* - (as *Dikraneura*): 3♂♂ not prepared.
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Noasca-Ceresole (TO) - (Orco Valley) - (hairpin bend) - m 1,200-1,300 - 9-IX-59 - H.P. *Satureja* - (as *Dikraneura*): ♂♂ ♀♀ not prepared.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - (as *Dikraneura*) - H.P. *Mentha longifolia*!! (tomentose): ♂♂ and ♀♀ not prepared - Chevrère (AO) - (Locality between Ruinaux and Fénille) - m 1,120 - H.P. *Anthriscus* sp., *Chaerophyllum hirsutum*, *Heracleum sphondylium* and meadow grasses: ♂♂ and ♀♀ not prepared
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - (Rhêmes Valley) - m 1,397 - 13-IX-59 - H.P. *Artemisia absinthium* - (as *Dikraneura*): ♂ and ♀ + neanids and nymphs not prepared.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Introd (AO) - (Valsavaranche) - m 888 - 15-IX-59 - H.P. *Mentha longifolia* - (as *Dikraneura*): several ♂♂ and ♀♀ not prepared.

- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - m 1,028 - H.P. *Salvia glutinosa* (understorey of *Larix*) - (as *Dikraneura*): ♂ ♂ and ♀ ♀ not prepared.
- Typhl. 308 - VENETIA - Peschiera del Garda (VR) - Hills (xerothermic areas) South of Peschiera (3-4 Km from the town), on the right of the road to Goito - 8-VI-61 - H.P. *Teucrium chamaedrys* (hill understorey of oaks) - Very depigmented leaves - (as *Dikraneura*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 313 - PIEDMONT - Valle Stretta - Dam of Mélezet (TO) - (Dora Riparia Valley) - m 1,400 - 16-VI-61 - H.P. *Satureja ?calamintha* - (as !!*Dikraneura*): 3♂ ♂ 1♀ (1♂ and 1♀ reared on potato - 2♂ ♂ dry).
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - (as *Dikraneura*) - H.P. *Bal-lota nigra*: 1♂ 2♀ ♀ not prepared - H.P. *Verbascum ?phlomoides*: 2♂ ♂ 2♀ ♀ not prepared - H.P. *Thymus ?serpyllum*: 1♂ 2♀ ♀ not prepared.
- Typhl. 344 - AOSTA VALLEY - Gran Paradiso National Park - Between Cané and Proussaz (AO) - (Rhêmes Valley) - m 1,550 ~ - 19-IX-61 - H.P. *Leontodon pyrenaicus* (Compositae): 1♂ 1♀ not prepared.
- Typhl. 346 - PIEDMONT - Caluso (TO) - Briamara - (Hedge along the Canal, near Scapino's orchard) - 23-IX-61 - H.P. *Urtica dioica* - (as *Dikraneura*): 6♂ ♂ 3♀ ♀ not prepared.
- Typhl. 347 - PIEDMONT - Orco Valley - Locana (TO) - m 613 - 27-IX-61 - H.P. *Mentha longifolia* (high with very tomentose leaves, ash-grey) - (as *Dikraneura*): 1♂ 3♀ ♀ not prepared.
- Typhl. 348 - PIEDMONT - Valprato-Soana (TO) - m 1,113 - 27-IX-61 - H.P. *Mentha* sp. (high with tomentose leaves, ash-grey) - (as *Dikraneura*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - (as *Dikraneura*) - H.P. *Mentha sylvestris*, *M. aquatica*: 1♂ 1♀ not prepared - H.P. *Pulicaria dysenterica*: 4♂ ♂ 1♀ not prepared.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Teucrium chamaedrys*: 1♂ 1♀ not prepared.
- Typhl. 355 - FRIULI-VENEZIA GIULIA - Trieste - Borgo Grotta Gigante - (Karstic zone relatively flat, not far from the airfield) - 1-X-61 - H.P. *Lamium maculatum*: 1♂ 3♀ ♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grass bank with various broadleaf shrubs, 6-7 metres high, in continuation with a dry heading! see Typhl. 356 - cool environment and relatively humid!) - H.P. *Salvia pratensis* - (as *Dikraneura*): 2♂ ♂ 4♀ ♀ not prepared.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - Santa Croce (near the natural tunnel, along the sea) - 3-X-61 - (as *Dikraneura*) - H.P. *Inula viscosa* and *Mentha* sp.: 1♂ 2♀ ♀ dry - H.P. *Salvia officinalis*: 1♂ 1♀ not prepared.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Teucrium scorodonia*!!! (leaves like *Salvia* spp.) - (as *Dikraneura*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - Close to the

- tunnel of Quassolo - 13-X-61 - H.P. *Parietaria officinalis* (collected by night) - (as *Dikraneura*): 1♂ 1♀ not prepared.
- Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, a little before the town, on the left of the road, arriving from Ceva) - 14-IX-62 - H.P. *Chrysanthemum* (*Tanacetum*) *vulgare* - (as *Dikraneura*): 2♂♂ 2♀♀ not prepared.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *M. rotundifolia* (in a stream) - (as *Dikraneura*): 1♂ 1♀ not prepared.
- Typhl. 419 - LIGURIA - Passo di Tegli (IM) - m 1,000 ~ - (Some kilometres before the Pass, arriving from Rezzo) - 14-IX-62 - H.P. *Teucrium chamaedrys*, *Lavandula spica* - (as *Dikraneura*): ♂♂ and ♀♀ + juveniles - 1♂ dry.
- Typhl. 420 - LIGURIA - Passo di Tegli (IM) - m 1,387! - 14-IX-62 - H.P. *Teucrium chamaedrys*, *Thymus vulgaris* - (as *Dikraneura*): 1♀ dry.
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - (as *Dikraneura*) - H.P. *Prunella grandiflora*!: 1♂ 4♀♀ not prepared - H.P. *Poa*, *Festuca*, *Vulpia* (under small oaks, small pines, small beeches), *P. grandiflora*: 4♂♂ 4♀♀ not prepared.
- Typhl. 422 ter - LIGURIA - Mortola (IM) - Villa Hambury - 15-IX-62 - H.P. *Salvia officinalis* - (as *Dikraneura*): ♂♂♀♀ not prepared.
- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi) - (road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone) - 16-IX-62 - H.P. !!!*Inula salicina*, plain at the base of a terracing - (as *Dikraneura*): ♂♂ and ♀♀ + juveniles - 1♂ 1♀ dry (depigmented leaves).
- Typhl. 426 bis - TUSCANY - S. Ilario in Campo and S. Piero in Campo (LI) - (Gullies, near Ponti) - 20-IX-62 - H.P. *Mentha rotundifolia*, *M. aquatica*, *Satureja calamintha* v *nepeta* - (as *Dikraneura*): ♂♂♀♀ not prepared - (Cfr. Typhl. 433).
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Mentha rotundifolia*, *Mentha aquatica*, *Satureja calamintha* v *nepeta* - (as *Dikraneura*): 1♂ 1♀ dry.
- Typhl. 458 bis - PIEDMONT - Alpinia (VB) - (Botanical garden near the Mount Motarone) - m... - 3-VI-63 - H.P. *Salvia pratensis* - (as *Dikraneura*): 1♀ dry.
- Typhl. 462 - LIGURIA - Passo di Tegli (IM) - (Pilone) - m 1,400 - 15-VIII-63 - H.P. *Satureja calamintha* v *nepeta*! - (as *Dikraneura*): 2♂♂ 3♀♀ not prepared - (On luxuriant plants not in flower).
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Mentha ?rotundifolia* (North-East of a country house) - (as *Dikraneura*): 2♂♂ 1♀ not prepared.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Salvia ?pratensis* - (as *Dikraneura*) - (Ditch in a slope of an erosion furrow): 2♂♂ 3♀♀ not prepared.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Mentha aquatica* (ditch): *Satureja calamintha* v *nepeta* - (as *Dikraneura*): ♂♂♀♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hill maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Mentha aquatica*, *M. longifolia* - (as *Dikraneura*): 1♂ 2♀♀ not prepared.
- Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 - H.P. *Satureja calamintha* (under chestnut shrubs) - (as *Dikraneura*): 1♂ 1♀ not prepared.

- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - (Day of strong wind) - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - North and at the base of rocks sheltering the vegetation beneath - (as *Dikraneura*) - (On *Satureja* and *Teucrium*): 4♂♂ 6♀♀ not prepared.
- Typhl. 484 - PIEDMONT - Acceglio (CN) - m 1,200 ~ - (Val Maira) - 6-X-63 - (Leg. dr Sampò) - H.P. *Nepeta ?cataria* - (as *Dikraneura*): 1♂ 4♀♀ (1♂ 2♀♀ dry).
- Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - 24-VII-64 - (Near the fountain upstream of the Sanatorium Agnelli) - H.P. *Satureja*, *Thymus serpyllum* - (as *Dikraneura*): ♂♂ ♀♀ not prepared.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - H.P. *Mentha*, *Glechoma*, *Lycopus*, *Stachys*, *Centaurea*, etc. - (as *Dikraneura*): ♂♂ ♀♀ dry.
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - Shore of the stream Bidente - 15-VIII-64 - H.P. *Teucrium chamaedrys* - (as *Dikraneura*): ♂♂ ♀♀ not prepared.
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 1♂ 1♀ not prepared.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramical road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse shrubs of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Stachys germanica* v *Reinerti* (under *Rosa montana*), *Ballota nigra*, *Lamium bifidum* - Juveniles and adults - (as *Dikraneura*): 2♂♂ 1♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Helianthemum vulgare*, *Teucrium chamaedrys*, *Potentilla* sp. (under *Corylus* and *Carpinus*) - (as *Dikraneura*): ♂♂ ♀♀ not prepared.
- Typhl. 514 - LATIUM - Karstic zone, along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 1♂ 1♀ not prepared.
- Typhl. 516 - TUSCANY - Abetone (PT) - 18-VIII-64 - m 1,200 - (Beechwood of the Tuscan slope) - (as *Dikraneura*) - H.P. *Prunella vulgaris*: 2♂♂ dry - m 1,400 - (Emilian slope, dry slope) - H.P. *Thymus serpyllum*: ♂♂ and ♀♀ (2♂♂ dry).
- Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate station of the cableway to Campo Imperatore) - m 1,600 ~ - 27-VIII-64 - H.P. *Rhinanthus*, *Thymus serpyllum* v *angustifolius* (under young *Pinus sylvestris*) - (as *Dikraneura*): 3♂♂ dry.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - H.P. *Thymus serpyllum* v *chamaedrys* - (as *Dikraneura*): 1♂ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina. Dolinas, etc. - 4-IX-64 - H.P. *Thymus serpyllum* v *chamaedrys* (in the open air!) - (as *Dikraneura*): 1♂ dry.
- Typhl. 537 - PIEDMONT - Val Gesso - Valdieri (CN) - 29-X-64 - m 800 - Karstic zone - H.P. *Thymus serpyllum* v *lanuginosus*, *Thymus serpyllum* v *ovatus* under protruding rocks, making a shelter. I collected during a shower (very depigmented leaves, even desiccated) - (as *Dikraneura*): 1♂ 4♀♀ dry (♀♀ on *Thymus*, ♂ on *Verbascum*

phlomoides) - Very interesting zone floristically; presence of *Satureja montana* (?*communis*), *Globularia cordifolia* (v *repens*), *Rhus cotinus* - It is worthwhile collecting in May-June and September.

Typhl. 539 - PIEDMONT - Vinadio (CN) - m 950 ~ - 29-X-64 - H.P. *Teucrium chamaedrys*: (2♂♂ 4♀♀ : 2♀♀ on *Satureja calamintha*) - (as *Dikraneura*): 2♂♂ 2♀♀ dry.

Typhl. 542 - AOSTA VALLEY - Champorcher (AO) - m 1,500 ~ - 15-VIII-66 - H.P. *Thymus serpyllum* - (as *Dikraneura*): 2♂♂ dry.

Typhl. 546 - LOMBARDY - Val Camonica - Breno (BS) - m 300 - Chestnut wood - 21-VIII-66 - H.P. *Prunella vulgaris*, *Thymus serpyllum*, *Leontodon* - (as *Dikraneura*): ♂♂♀♀ and nymphs - 1♂1♀ dry.

Typhl. 550 - TRENTO-ALTO ADIGE - Passo del Tonale - Val Vermiglio (TN) - m 1,550 - 21-VIII-66 - (Mixed broadleaf and conifer humid wood) - H.P. *Satureja acinos* (and *Thymus serpyllum*) - (as *Dikraneura*): 1♂2♀♀ not prepared.

Typhl. 551 - TRENTO-ALTO ADIGE - Vermiglio (TN) - m 1,250 - 21-VIII-66 - H.P. *Thymus serpyllum* (tufts along the track) - (as *Dikraneura*): ♂♂♀♀ not prepared.

Typhl. 557 - TRENTO-ALTO ADIGE - Montagna (BZ) - (Last curve of the road Ora-Cavalese) - m 500 - 22-VIII-66 - H.P. *Thymus serpyllum* - (as *Dikraneura*): 1♂2♀♀ dry.

Typhl. 563 - TRENTO-ALTO ADIGE - Pian delle Fugazze (TN) - m 1,150 - 23-VIII-66 - H.P. *Thymus serpyllum* (at the base of shrubs of *Corylus*, rose, ash, etc. In grass clearings among *Fagus*) - (as *Dikraneura*): ♂♂♀♀ not prepared.

Typhl. 564 - JUGOSLAVIJA - Kutina (Hrvatska) - Locality 70 Km from Zagreb - 1-IX-66 - hilly zone - m 250-300 - H.P. *Thymus serpyllum* (*ovatus*), *Prunella vulgaris* etc., in a mixed coppice wood (*Quercus robur*, *Carpinus*, etc.), very high humidity - (as *Dikraneura*): ♂♂♀♀ not prepared.

Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000 ~ - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Glechoma hederacea*, *Veronica urticifolia* - (as *Dikraneura*): 1♂ dry.

Typhl. 572 - JUGOSLAVIJA - Serbia - Suva Planina - Locality Kunjarnik - m 800-900 - 30-V-67 - The locality Kunjarnik, about 40 Km far from Niš, is on the right orographic slope of the Stream Kutina (Kutinska Reka). You get there through a narrow valley from the village of Dušnik (map) - Karstic zone with *Quercus*, *Carpinus* (or *Ostrya*?), *Acer campestre*, *Fagus* (rare), *Syringa vulgaris*!, *Crataegus*, etc. - H.P. *Thymus serpyllum* v *chamaedrys* (with oval leaves). In grassy clearings of 100-200 m² surrounded by shrubs of *Quercus*, *Crataegus*, *Acer* - (as *Dikraneura*): 2♀♀ dry.

Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, about 15 Km from Niš, on the left of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - (karstic locality rich of *Salvia officinalis*) - H.P. *Teucrium chamaedrys*! - (as *Dikraneura*): 2♂♂2♀♀ not prepared.

Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing close to shrubs of *Calluna vulgaris* and birch and chestnut wood edge) - H.P. *Salvia* sp. and other Labiatae - (as *Dikraneura*): 4♂♂1♀ not prepared.

Typhl. 594 - PIEDMONT - Roddino (CN) - 31-VIII-80 - m 610 - H.P. *Mentha rotundifolia*: 1♀ not prepared.

- Typhl. 628 - PIEDMONT - Groscavallo (TO) - m 1,100 - (The townhall is in the hamlet Pialpetta m 1,069) - 30-VIII-81 - H.P. *Solanum tuberosum*: 5♂♂ 3♀♀ dry - (Cfr. Typhl. 607).
- Typhl. 726 bis - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 10-VIII-83: 2♀♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 27-VII-84: 1♂.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Teucrium scorodonia* (plantlets grown in the shadow, under *Fagus*): 4♂♂ 5♀♀ dry (3♀♀ dryinidized).
- Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Marsh clearing, near a beechwood - m 1,500 - H.P. *Mentha !longifolia* (tomentose): 1♀ not prepared.
- Typhl. 738 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope opposite to that of cableways - m 1,500 - H.P. *Teucrium scorodonia* (track side, in beechwood): 2♂♂ 1♀ not prepared.
- Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Origanum vulgare*, *Teucrium scorodonia*: 1♂ 1♀ not prepared.
- Typhl. 742 - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 20-VIII-84: 1♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 13-IX-84 - H.P. *Calendula*: 1♂ 1♀; H.P. *Salvia*: 1♀.
- Typhl. 782 - PIEDMONT - Melle (CN) - (Prof. Basoccu's home) - m 700 - 15-VII-85 - H.P. *Thymus serpyllum* (ashy, tomentose): 4♂♂ dry (3 reared from nymphs).
- Typhl. 844 - Auchenorrhyncha collected in October 1985 near Faenza (RA) by drss Belardi - Sample no. 1: 1♂ 1♀.
- Typhl. 859 - VENETIA - Maserada sul Piave (TV) - 24-IX-86 - Farm Tonini - (Leg. Arzone, Alma, Arnò) - H.P. *Salvia officinalis* (in a vegetable garden): 1♂ 6♀♀ not prepared.
- Typhl. 914 - ABRUZZO - Prati di Tivo (TE) - Gran Sasso - m 1,500 - 17-VI-88 - H.P. *Scrophularia* spp.: 1♂ 1♀.
- Typhl. 923 - PIEDMONT - I.T.A. Alba (CN) - 26-VII-88 - H.P. *Convolvulus arvensis* (among Chardonnay grapevines) - It got abundant after using herbicide - Now the plants affected by MLO are relatively few: 2♂♂ not prepared.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Galeopsis pubescens* (hedge in the shadow under wild hazelnuts): 1♂ 2♀♀ not prepared.
- Typhl. 929 - VENETIA - Cordignano (TV) - 29-VII-88 - H.P. mint: 4♂♂ 3♀♀ not prepared.
- Typhl. 940 - PIEDMONT - Vezza d'Alba (CN) - 3-VIII-88 - H.P. bean (near grapes): 2♂♂ 5♀♀ not prepared.
- Typhl. 961 - EMILIA-ROMAGNA - Bologna - (Surroundings) - 26-XI-88 - (Faccioli legit) - H.P. bean: 2♂♂ det. Arnò.

Box 6

GENUS *DIKRANEURA* Hardy, 1850*DIKRANEURA aridella* (J. Sahlberg, 1871)

Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park - Valle di Piantonetto (TO) - m 1,450 - (Cableway station and Don Salvetti's apiary) - 27-IX-61 - H.P. various Gramineae (*Poa* sp., etc.) among ferns and blueberries - (Ossiannilsson 1941): ! 2♂♂ dry (greenish; vertex less pointed) (of *D. variata*, editor's note) - Length mm 2.8-3.

DIKRANEURA variata Hardy, 1850

Typhl. 89 - PIEDMONT - Susa (TO) - (road of Cesana) - m 600 - 9-V-57 - H.P. polyphyte meadow (Gramineae): 1♀ dry - (Cfr. Typhl. 99).

Typhl. 99 - PIEDMONT - Susa (TO) - (road of Cesana) - 24-V-57 - H.P. *Thalictrum foetidum alpestre* (In polyphyte meadow with grasses, etc.): 1♀ dry - (Cfr. Typhl. 89).

Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. wild Gramineae of the understorey: 1♀ dry.

Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - H.P. wild Gramineae (at the base of a rock, under *Fagus*): !!! 1♂ dry.

Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Sampò's home) - 25-VI-58 - H.P. *Cynodon dactylon* and other Gramineae: 1♀ dry.

Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - m 1,028 - H.P. *Lolium temulentum*: 1♂ (aedeagus similar in part to that of *aridella*), 3♀♀ dry - Finale Ligure (SV) - (road of Colle di Melogno) - H.P. *Agrostis alba*, *Poa tenuifolia*, *Anthoxanthum odoratum* and other Gramineae (*Carex* sp.): 14♂♂ (4 in alcohol, 10 in a plastic tube), 15♀♀ (4 in alcohol, 11 in a plastic tube).

Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park - Piantonetto Valley (TO) - 27-IX-61 - m 1,450 - (Cableway station and Don Salvetti's apiary) - H.P. various Gramineae (*Poa* sp. etc.) among ferns and blueberries: ! 1♂ dry (ochraceous brownish colour, vertex more pointed) (than *D. aridella*, editor's note) - (with aedeagus characters between *D. variata* and *D. cenensis* Linnavuori 1953).

Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Carex verna* and Gramineae (under *Castanea* shrubs): 1♂ dry.

Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Poa nemoralis*, *Festuca ovina*: 1♂7♀♀ dry + nymphs.

Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Vulpia* (under small oaks, small pines, small beeches): 1♂1♀ dry (To Servadei: 1♂1♀ April 1971).

Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North Slope, not sunny understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. ?*Vulpia*, *Festuca* and other Gramineae: 1♂ dry.

Typhl. 459 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 13-VI-63 - H.P. *Festuca rubra*!, *Poa*, *Festuca*, etc.: 2♂♂ dry.

Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 -

- H.P. Gramineae (under *Castanea*): 2♂♂ 3♀♀ not prepared.
- Typhl. 482 - PIEDMONT - Caluso (TO) - 1-X-63 - H.P. *Agrostis*, *Bromus*, *Festuca*, *Molinia* (under *Castanea*): 1♂ 7♀♀ dry.
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - Day with strong wind - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - Northwards and at the base of rocks sheltering the vegetation beneath: 2♂♂ 1♀ dry and juveniles - (Coming from nearby Gramineae: *Deschampsia*, *Festuca*, *Poa*).
- Typhl. 496 - PIEDMONT - S. Giorio (TO) - 16-VI-64 - H.P. *Festuca rubra* (and *Deschampsia flexuosa*): 14♂♂ 7♀♀ (and juveniles) dry.
- Typhl. 515 - TUSCANY - Pianosinatico Cutigliano (PT) - m 800-900 - 18-VIII-64 - H.P. Gramineae, *Brachypodium pinnatum*, *Festuca*, *Bromus*, *Poa* (under chestnut, *Alnus incana*, etc.) - (m 1,000): 1♂ 1♀ dry.
- Typhl. 535 - PIEDMONT - Fiano (TO) - (hill, m 400) - 22-X-64 - Crossroad Fiano - new road to Lanzo - H.P. *Deschampsia flexuosa*, *Luzula nivea* (under *Castanea*): 5♂♂ 9♀♀ dry (4♂♂ and 5♀♀ with greeny elytra; 1♂ and 4♀♀ with reddish elytra) - 1♂ and 1♀ reared from nymphs collected on *Deschampsia* and *Luzula* have green elytra. Species overwintering probably in the adult stage. All specimens killed on 2-IX-64. Depigmented leaves in *Deschampsia*.
- Typhl. 550 - TRENTINO-ALTO ADIGE - Passo del Tonale - Val Vermiglio (TN) - m 1,550 - 21-VIII-66 - Mixed wood of broadleaves and conifers - humid - H.P. Gramineae (*Poa*, *Festuca*, under broadleaf trees): ? 1♀ dry.
- Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing close to patches of *Calluna vulgaris* and birch and chestnut wood edges) - H.P. wild Gramineae: 3♀♀ dry.
- Typhl. 592 - PIEDMONT - Bibiana (TO) - m 460 - 29-VIII-80 - Park of the Castle (Marquise Cattaneo) - H.P. various Gramineae (in understorey): 3♂♂ 3♀♀ dry.
- Typhl. 604 - PIEDMONT - Foresto (Susa) (TO) - 22-II-81 - H.P. *Vaccinium*, Gramineae: 1♂ dry.
- Typhl. 610 - PIEDMONT - Perosa Argentina (TO) - m 650 ~ - Rio La Greve - 5-VII-81 - H.P. *Deschampsia cespitosa* (under chestnut): 6♂♂ 7♀♀ dry - Parasitized: 2 by dryinids and 2 by pipunculids.
- Typhl. 717 - PIEDMONT - Belmonte-Cuorgnè (TO) - 12-VIII-84 - H.P. Gramineae: *Luzula nivea* (+ nymphs): 6♂♂ 4♀♀ dry.
- Typhl. 729 - PIEDMONT - Valcasotto (CN) - m 950 - 16-IX-84 - H.P. wild Gramineae: 1♂ dry.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - Mount Manfrè - Etna - m 1,850 - 1-VIII-78 - Understorey of chestnut wood: 1♂ 6♀♀ - 12-X-78, 29-VIII-78: 2♀♀.

BOXES 7-8

GENUS *MICANTULINA* Anufriev, 1970*MICANTULINA micantula* (Zetterstedt, 1840)

- Typhl. 89 - PIEDMONT - Susa (TO) - (road of Cesana) - m 600 - 9-V-57 - H.P. not ascertained (Polyphyte meadow with Gramineae, clover, *Salvia pratensis*, *Thalictrum flavum*, etc.) - (as *Dikraneura*): 2 ♀ ♀ dry. Phot. 3,897 - N.B.: this species is not yet recorded in France. The two specimens I collected have not the black spot at the distal end of the clavus, while they show very well the other 2.
- Typhl. 99 - PIEDMONT - Susa (TO) - (road of Cesana) - 24-V-57 - H.P. *Thalictrum foetidum alpestre* (in a polyphyte meadow with Gramineae, etc.) - (as *Dikraneura* Edwards): 1 ♀ dry.
- Typhl. 105 - PIEDMONT - Salabertano (TO) - 31-V-57 - H.P. *Thalictrum foetidum* v *majus* - (as *Dikraneura* Edwards): 4 ♀ ♀ dry (2 with the 5th spot and 2 without).
- Typhl. 106 - PIEDMONT - Ulzio (TO) - 31-V-57 - H.P. *Thalictrum foetidum* v *majus* - (as *Dikraneura* Edwards): 1 ♀ dry (with the 5th spot).
- Typhl. 119 - PIEDMONT - Susa and Salabertano (TO) - 18 and 25-VI-57 - H.P. *Thalictrum foetidum* v *majus*, *Thalictrum aquilegiifolium* - (as *Dikraneura*, Zetterstedt 1839): presence of adults, neanids and nymphs on the lower page of *Thalictrum foetidum* - Reared 10 adults: 6 ♂ ♂ (4 in alcohol, 2 dry), 4 ♀ ♀ (3 in alcohol, 1 dry) - Nymphs in alcohol - (Cfr. Typhl. 755) - phot. 4,085: ♂; phot. 4,086: tegmen and wing of a ♂; phot. 4,087: last instar nymph; phot. 4,088-4,089: *Thalictrum* leaves - To Servadei: 1 ♂ 1 ♀ April 1971 - 4 **drawings**.
- Typhl. 125 - PIEDMONT - Exilles-Salabertano (TO) - m 1,000 - 5-VII-57 - H.P. *Thalictrum* - (as *Dikraneura*): 8 adults reared (3 ♂ ♂ 5 ♀ ♀ in alcohol) + 5 5th instar nymphs - N.B.: in the ♀ ♀ the 3rd spot is very small.
- Typhl. 239 - PIEDMONT - Ulzio (TO) - 21-V-58 - H.P. *Thalictrum flavum* - (as *Dikraneura*): 1 ♀ dry - Only with 4 black spots!
- Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Thalictrum flavum* - (as *Dikraneura*): 3 ♀ ♀ (without the 5th black spot on the elytra) - 1 ♀ dry.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) (Valsavaranche) - m 1,200 ~ - 15-IX-59 - H.P. *Thalictrum flavum* or *flexuosum*, very depigmented leaves - (In the understorey: hazelnuts, lindens, *Ulmus montana*, etc.) - (as *Dikraneura*): ♂ ♂ and ♀ ♀ - 6 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - Grassy bank with various broadleaf shrubs, 6-7 m high, in continuation with a dry heading! see Typhl. 356 - A cool and relatively humid environment! - (as *Dikraneura*) - H.P. *Thalictrum* sp.: 2 ♀ ♀ not prepared - H.P. *Thalictrum flavum* (depigmented leaves, under hazelnuts, *Acer*, and *Quercus*): 2 ♀ ♀ not prepared.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North Slope - Not sunny understorey: *Castanea*, *Acer*) - 15-IX-62 - H.P. *Acer pseudoplatanus* (low shrubs) - (as *Dikraneura*): 1 ♂ dry (on *Thalictrum*).

- Typhl. 457 - PIEDMONT - Cesana (TO) - (road to Sestriere) - m 1,500 - 30-V-63 - H.P. *Thalictrum ?flavum* - (as *Dikraneura*): 3 ♀ ♀ dry.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Verbascum* sp. - (as *Dikraneura*): 2♂♂ 5 ♀ ♀ and nymphs not prepared.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of N-E slope of Dinara Planina - Dolinas etc. - H.P. *Aquilegia alpina* - (as *Dikraneura*): 1 ♀ dry.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura m 150-200-300, East of the town - *Quercus ?pubescens* - H.P. *Thalictrum* sp. (very depigmented) under *Corylus*, *Ostrya*, etc. - (as *Dikraneura*): 1♂ 2 ♀ ♀ not prepared.
- Typhl. 540 - PIEDMONT - Chiomonte (TO) - (Dora Riparia Valley) - (1 Km from the bridge to Exilles) - m 850 - 25-V-66 - H.P. *Thalictrum flavum* - (as *Dikraneura*): 8 ♀ ♀ dry.

MICANTULINA stigmatipennis (Mulsant & Rey, 1855)

- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (bed of the stream Deiva) - 16-VIII-57 - H.P. *Verbascum boerhavii* v *majalis* - Now there are adults and 5th instar nymphs on the radical leaves that appear very depigmented like the caulinar ones too - (as *Dikraneura*): 16♂♂ (3 dry), 25 ♀ ♀ (4 dry), 3 5th instar nymphs and exuviae in alcohol. Milky nymphs with dorsal hairs brown and lateral ones white - N.B.: the legs are pale green like the abdomen, the yellow spots of the tegmina are not displayed as Ribaut says - Length of ♂♂ mm 3-3.25; length of ♀♀ mm 3.10-3.50. Phot. 4,290: ♂; 4,291: 5th instar nymph; 4,292: tegmen and wing of a ♀.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Bisagno stream) - 2-X-57 - H.P. *Verbascum boerhavii* v *majalis* - (as *Dikraneura*): 5♂♂ (3 dry, 2 in alcohol), 9 ♀ ♀ (3 dry, 6 in alcohol), 4 nymphs in alcohol - 1♂ 1 ♀ to Linnavuori, September 1961.
- Typhl. 251 - PIEDMONT - Carignano-Villastellone-Santena (TO) - (railway escarpment) - 30-VI-58 - H.P. *Verbascum phlomoides* - (as *Dikraneura*) - presence of juveniles and adults: 1♂ 1 ♀ dry.
- Typhl. 314 - CALABRIA - Crotone (KR) - (Ente Riforma farm) - 8-VII-61 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 2 ♀ ♀ not prepared.
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica near lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Verbascum ?phlomoides* - (as *Dikraneura*): 1♂ 3 ♀ ♀ dry.
- Typhl. 332 - SARDINIA - Arborea (OR) - (Grove near the canal of the drainage district) - 13-VIII-61 - H.P. ?*Verbascum boerhavi* - (as *Dikraneura*): 2♂♂ 3 ♀ ♀ not prepared.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Verbascum ?lanatum* - (as *Dikraneura*): 3 ♀ ♀ dry + nymphs.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the

- gulf of Augusta) - 14-IV-62 - H.P. *Verbascum ?lanatum* - (as *Dikraneura*): 1 ♂ 5 ♀ ♀ dry + nymphs.
- Typhl. 393 - SICILY - Godrano-Ventimiglia (PA) - 17-IV-62 - H.P. *Verbascum* sp. - (as *Dikraneura*): 1 ♂ 12 ♀ ♀ dry + nymphs.
- Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, little before the town, on the left of the road, coming from Ceva) - 14-IX-62 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): ♂ ♂ ♀ ♀ + juveniles - 1 ♀ dry.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 5 ♀ ♀ dry + juveniles. Very depigmented leaves. Phot. 10,366: ♀ length mm 3.5.
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (bed of the stream Bidente) - 15-VIII-64 - H.P. *Verbascum phlomoides* - (as *Dikraneura*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 2 ♂ ♂ 6 ♀ ♀ dry and juveniles - 1 ♂ 3 ♀ ♀ to Ossiannilsson on 5-X-64.
- Typhl. 509 - UMBRIA - Massa Martana (PG) - (Calcareous, karstic zone) - 15-VIII-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 2 ♂ ♂ 2 ♀ ♀ dry (together with *D. teucarii*).
- Typhl. 513 - ABRUZZO - Assergi (AQ) - 16-VIII-64 - H.P. *Verbascum* sp. - (as *Dikraneura*): ♂ ♂ ♀ ♀ and nymphs not prepared.
- Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Atrodoco (RI) - 16-VIII-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 2 ♀ ♀ dry.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - Mura, m 150-200-300 East of the town - *Quercus ?pubescens* - 6-IX-64 - H.P. *Verbascum sinuatum* - (as *Dikraneura*): 2 ♂ ♂ 3 ♀ ♀ dry and juveniles.
- Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, 15 Km from Niš, on the left of the road Niš-Sofia - I collected between 300 and 500 m - Karstic locality, rich of *Salvia officinalis* - 31-V-67 - H.P. *Verbascum ?phlomoides* - (as *Dikraneura*): 2 ♂ ♂ 2 ♀ ♀ dry (1 ♂ pipunculidized).

MICANTULINA teucarii (Cerutti, 1938)

- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - H.P. *Teucrium polium*, *Teucrium montanum* - (as *Dikraneura* or ?n.sp.): 3 ♂ ♂ 3 ♀ ♀ dry + 2 nymphs - Reared the 2 above mentioned adults! - Differences in the drawings of the forebody and elytra - Much smaller than *D. stigmatipennis* on *Verbascum* - (Cfr. Typhl. 504 and 519) - phot. 10,376: ♂ length mm 2.4; 10,377: ♀ length mm 2.55 (on ?*Lavandula stoechas* and *Helichrysum italicum*).
- Typhl. 504 - LIGURIA - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - m 600 ~ - ("Belvedere") - 6-VIII-64 - H.P. *Teucrium polium* - (Cfr. Typhl. 423) - ? (as *Dikraneura*): 4 ♂ ♂ (1 in alcohol, 3 dry), 8 ♀ ♀ (2 in alcohol, 6 dry), 2 nymphs in alcohol - Phot. 12,937: ♂ (length mm 2.5); 12,938: ♀ (length mm 2.75); 12,939: nymph (length

mm 2). (Concerning the black spots on the elytra: 3♂♂ show a couple of them and 1♂ due couples; 3♀♀ show a couple of them and 5♀♀ two couples) - Length of ♀♀ mm 2.6-3 - Length of 5♀♀ mm 14: = mm 2.8 - Length of ♂♂ mm 2.4-2.7 - !Remarkable length of the rostrum, both in adults and nymphs (a peculiarity to put in relation with the hairiness of the leaves of their host plant) - (To Knight 5-X-64: 1♂ without black spots, 1♀ with 2 black spots, 1♀ with 4 black spots).

Typhl. 509 - UMBRIA - Massa Martana (PG) - (Calcareous, karstic zone) - 15-VIII-64 - H.P. *Teucrium polium*, *Verbascum sinuatum* - (as *Dikraneura*): 2♂♂ 4♀♀ dry (together with *D. stigmatipennis*).

Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Teucrium polium* - (as *Dikraneura*): 1♂ 3♀♀ not prepared.

Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate cableway station to Campo Imperatore) - m 1,600 ~ - 27-VIII-64 - H.P. *Teucrium montanum* (among Gramineae and *Carex*) - (as *Dikraneura*): 4♂♂ 7♀♀ (1♂ 1♀ in alcohol) - (1♂ parasitized by 2 specimens of *Aphelopus*; other 2♂♂ and 6♀♀ parasitized by 1 specimen of *Aphelopus*) - (Cfr. Typhl. 423 and 504).

Typhl. 528 - JUGOSLAVIJA - Kotor - 6-IX-64 - Wild slope West of the town - m 50-100 - H.P. *Teucrium polium* (in arid meadow, karstic, rich besides *Teucrium* also *Thymus serpyllum* v *longicaulis* and *Satureja juliana*: the last not visited by typhlocybrids) - (as *Dikraneura*): 6♂♂ 4♀♀ dry - 5-X-64: 2♂♂ 1♀ to Wagner - 1♂ 1♀ April 1971 to Servadei.

Typhl. 555 - TRENTO-ALTO ADIGE - Passo della Mendola (BZ) - m 1,362 - 22-VI-II-66 - (Roadside, driving up from Fondo) - H.P. *Teucrium montanum* (m 1,300) - (as *Dikraneura*): 6♂♂ 9♀♀ dry.

Typhl. 562 - TRENTO-ALTO ADIGE - Vallarsa (TN) - (road Rovereto-Piano delle Fugazze) - m 600 - 22-VIII-66 - H.P. *Teucrium montanum* (oak wood) - (as *Dikraneura*): 2♂♂ 1♀ + nymphs, dry.

Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, about 15 Km from Niš, on the left of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - Karstic locality, rich of *Salvia officinalis* - H.P. *Teucrium polium* - (as *Dikraneura*): 2♀♀ dry.

Box 9

GENUS WAGNERIALA Anufriev, 1970

WAGNERIALA incisa (Then, 1897)

Typhl. 57 - (Cfr. Typhl. 63) - PIEDMONT - Ternavasso (TO) - (Dry bed of the lake, eastern bank) - 18-X-56 - H.P. *Carex* sp. - (as *Dikraneura*): 2♀♀ of the gr. *sinuata* - 1♀ in alcohol, 1♀ dry. Abdomen not brown ventrally but yellow. Last abdominal sternite wider than long, with the posterior margin trilobate and the central lobe narrow, elongated, blackish brown - phot. ♀ ventral - Length 3 mm.

Typhl. 63 - (Cfr. Typhl. 57) - PIEDMONT - Ternavasso (TO) - (Near lake) - 23-X-56 -

H.P. *Carex* sp., *Brachypodium pinnatum* (as *Dikraneura*) - Gr. *sinuata*: 18 individuals of which 1 ♂ in alcohol, 17 ♀ ♀ (2 prepared on glass slide, 3 dry, 12 in alcohol) - The adults of this species are difficultly found and it is not easy to collect them. They live preferably on small *Carex* plants, on the lower leaf page of which they live almost on the ground. When they are disturbed they make short and rapid flights, without lifting much up but grazing the low vegetation hosting them.

Typhl. 67 - (Cfr. Typhl. 57, 63 and 68) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Carex verna* (= *caryophyllea* = *nitida*) - Dalla Fior says of this species: common in arid pastures, from the plains to the mountain area. It flowers in March-April - In Flora von Deutschland it is written that it flowers in April-May - At Ternavasso I find it rather often in wood clearings and particularly around small *Quercus* shrubs - (as *Dikraneura*): 39 ♀ ♀ (gr. *sinuata*), no ♂ ♂ - 21 ♀ ♀ dry, 18 ♀ ♀ in alcohol.

Typhl. 68 - (Cfr. Typhl. 57, 63 and 67) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Carex verna* (= *caryophyllea* = *nitida*) - (as *Dikraneura* gr. *sinuata*): 12 ♀ ♀ (no ♂ ♂) - 2 ♀ ♀ phot. dorsal (phot. 3,643) and ventral (phot. 3,644), 10 ♀ ♀ dry - Such females were killed on 30-XI-56: until then they remained in a glass tube containing *Carex verna* plantlets.

Typhl. 76 - PIEDMONT - Ternavasso (TO) - (Clearing of the wood beneath the new tension line) - 27-III-57 - Biotope: dry *Quercus* leaves on the ground and on the plant (shrubs) - Eggs overwintering in *Carex verna* leaves - (see **drawings**) - 11-IV-57 - first neanids hatching (reared) - 20-V-57 - 5th instar nymphs (in alcohol).

Typhl. 106 bis - PIEDMONT - Ternavasso (TO) - 31-V-57 - H.P. *Carex verna* - (as *Dikraneura*): 12 ♂ ♂ 11 ♀ ♀ + nymphs not prepared.

Typhl. 116 - PIEDMONT - Ternavasso (TO) - 21-VI-57 - H.P. *Carex verna* - (Cfr. Typhl. 365) - (as *Dikraneura*) - 68 individuals: 19 ♂ ♂ (5 dry, 14 in alcohol), 49 ♀ ♀ (5 dry, 44 in alcohol) - Ratio between ♂ ♂ and ♀ ♀ = 2:7 - I found ♀ ♀ ovipositing (1 ♀ with the terebra inserted in a *Carex* leaf, in alcohol). No juveniles (neanids and nymphs) - Now the 2nd generation is starting, while the ♂ ♂ start disappearing - 5-X-64: 2 ♂ ♂ 2 ♀ ♀ to Wagner.

Typhl. 123 bis - PIEDMONT - Ternavasso (TO) - 3-VII-57 - H.P. *Carex verna* - (as *Dikraneura*): 7 ♀ ♀ not prepared.

Typhl. 151 bis - PIEDMONT - Ternavasso (TO) - 29-VII-57 - H.P. *Carex verna* - (as *Dikraneura*): 15 ♂ ♂ 16 ♀ ♀ not prepared.

Typhl. 170 bis - PIEDMONT - Ternavasso (TO) - 28-VIII-57 - H.P. *Carex verna* - (as *Dikraneura*): ♂ ♂ ♀ ♀ not prepared.

Typhl. 191 bis - PIEDMONT - Ternavasso (TO) - 19-IX-57 - H.P. *Carex verna* - (as *Dikraneura*): 16 ♂ ♂ 11 ♀ ♀ not prepared.

Typhl. 206 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Carex verna* - (as *Dikraneura* n.sp., gr. *sinuata*): 11 individuals of which 3 ♂ ♂ and 8 ♀ ♀ (in a plastic tube) - 1 ♂ 2 ♀ ♀ to Servadei, April 1971.

Typhl. 289 - LIGURIA - Finale Ligure (SV) - (road of Colle Melogno) - m 600 - 21-IX-59 - H.P. *Agrostis alba*, *Poa tenuifolia*, *Anthoxanthum odoratum* and other Gramineae, *Carex* sp. (under *Castanea* shrubs) - (as *Dikraneura*): 1 ♂ 10 ♀ ♀ in a plastic tube.

- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Carex verna* and Gramineae (under *Castanea* shrubs) - (as *Dikraneura*): 6 ♀ ♀ dry - (Cfr. Typhl. 116 and 414).
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Carex muricata* (= *contigua*) - (Under a small fig plant in an arid place, near the henhouse of Palazzo Buglione and under *Castanea*) - (as *Dikraneura*): 3 ♂ ♂ 1 ♀ dry + nymphs - (Cfr. Typhl. 116, 289, 365).
- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Torinese) - m 600 - 30-VIII-64 - H.P. *Carex verna*, with *Festuca*, *Bromus erectus* (under small oaks) - (as *Dikraneura*): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 597 - PIEDMONT - Predosa (AL) - 7-IX-80 - H.P. *Carex muricata* (under *Cedrus atlantica* and *Quercus cerris*): 2 ♂ ♂ 8 ♀ ♀ dry.

WAGNERIALA minima (J. Sahlberg, 1871)

- Typhl. 518 - ABRUZZO - Gran Sasso (AQ) - Campo Imperatore - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Carex laevis* with the above mentioned thyme (*Thymus serpyllum* v *angustifolius* and v *chamaedrys*, editor's note) and with the Gramineae *Sesleria tenuifolia* and *Festuca ovina* - (as *Dikraneura*) - (Cfr. Wagner 1955): 1 ♀ dry - (Seen other specimens, both beside the Astronomic Observatory and South of the hotel Campo Imperatore, that I could collect).
- Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate cableway station to Campo Imperatore) - m 1,600 circa - 27-VIII-64 - H.P. *Carex ?laevis* (among *Teucrium montanum*), small plants with narrow leaves, and *Helianthemum* spp. - (as *Dikraneura*): 2 ♀ ♀ dry - (Cfr. with ♀ ♀ of Wagner's and Dlabola's collections).

WAGNERIALA sinuata (Then, 1897)

- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Dactylis glomerata*, *Bromus sterilis*. Under the above mentioned *Crataegus* shrub (*C. monogyna*, editor's note) on a slope. Arid environment - (as *Dikraneura*): !!! 1 ♂ dry - (N.B.: emerged in the glass tube with Gramineae).
- Typhl. 423 - LIGURIA - Carpe (SV) - (Serra di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - (as *Dikraneura*) - H.P. various Gramineae (under small oaks, arid environment), *Festuca spadicea* and ?*Carex*, *Poa tenuifolia*: !!! 7 ♂ ♂ 3 ♀ ♀ dry + nymphs - To Servadei: 3 ♂ ♂ 1 ♀ April 1971 - H.P. various Gramineae (under small oaks, arid environment), *Festuca spadicea* and ?*Carex*, *Poa tenuifolia*. *Bromus erectus* (sheltered in a cool environment; small dry-stone wall): 1 ♂ 2 ♀ ♀ dry - (Distance from the locality of the above mentioned specimens m 50 ~).
- Typhl. 684 - LIGURIA - Apricale (IM) - m 300 - 19-VI-84 - H.P. *Brachypodium pinnatum*, *Bromus*, *Festuca* (in ulive grove along the road): 1 ♂ dry.

Box 10

GENUS *FORCIPATA* DeLong & Caldwell, 1936*FORCIPATA citrinella* (Zetterstedt, 1828)

- Typhl. 71 - PIEDMONT - Caluso (TO) - (Hedge of the heading of the properties Cinto, Maresciallo Garino, etc.) - 10-XI-56 - H.P. various herbaceous plants, under *Quercus* - (as *Dikraneura similis* Edwards): 1♂ 1♀ dry.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. wild Gramineae and *Carex* (secondary roadside crossing the woods) - (as *Dikraneura*, correct *Forcipata*): 1♂ 2♀ ♀ dry.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-San Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road on the orographic right of the valley) - 8-X-57 - H.P. wild Gramineae - (as *Dikraneura*): 1♂ 2♀ ♀ dry.
- Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - H.P. Gramineae and Cyperaceae - (as *Dikraneura*): 5♀ ♀ dry.

FORCIPATA flava Vidano, 1965

- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. various Gramineae and *Carex* - On *Molinia caerulea* and *Lolium perenne* - (Cfr. Typhl. 195 and 307) - !!!n.sp. (group *citrinella*): 2♀ ♀ dry - Lemon yellow colour [much more intense than that of the other two species (gr. *citrinella* and *obtusa*, editor's note) that tends to green because of the black of uroterga], uniform, (head, thorax, abdomen, legs, tegmina, wing veins) except small ferrugineous areas of metanotum and brown anterior edges of uroterga. The terebra is ferrugineous dorsally. Base of external spines of hind tibiae with brown points. Tegmina with transparent areas like the other 2 species of this group and apical cells faintly infumate. Median lobe ending with a point (shovel-shaped).
- Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - !!!n.sp. - H.P. *Carex* ...and various wild Gramineae along the secondary road crossing the woods (*Lolium perenne*, *Molinia caerulea*): 3♀ ♀ dry - (Cfr. Typhl. 188 and 307) - (To Knight: 1♀, 22-IV-65; to Servadei: 1♀, April 1971).
- Typhl. 307 - PIEDMONT - La Cassa-Givoletto (TO) - 31-V-61 - H.P. various Gramineae (*Agrostis alba* and *Festuca* sp.) under and near *Quercus* shrubs - (as *Dikraneura*): 3♂♂ 4♀ ♀ dry - Type and Paratypes - (Cfr. Typhl. 188 and 195) - (2♂♂ parasitized by pipunculids).
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Roasenda (VC) - 23-V-77: 1♂ 1♀.

FORCIPATA forcipata (Flor, 1861)

Typhl. 721 - SWITZERLAND - Schatzalp - Davos - GR - m 1,800 - 29-VIII-84 - H.P. - *Molinia caerulea* and other Gramineae: !!! 1♂ 1♀ dry.

FORCIPATA major (Wagner, 1947)

- Typhl. 11 - PIEDMONT - Caluso (TO) - (Bank of the Canal N-E of Picco Isidoro's vineyard) - 16-X-55 - H.P. wild Cyperaceae and Gramineae along the Canal - Basic colour sulphur yellow, including wings (infumate at the distal end). Uroterga bordered in black. Of 8 individuals collected, 7 are ♀♀ and 1♂. In alcohol 1♂ and 3♀♀.
- Typhl. 42 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 6-X-56 - H.P. (humid biotope around water basins) - *Carex muricata* - (as *Dikraneura*): 1♂ dry - I find some differences from Ribaut's description and drawings (pages 218-219) in the chaetotaxy of genital blades and styli that are fused with the blades and therefore indistinguishable - (**drawings** of genital blades, aedeagus, stylus) - 8-X-56 - H.P. *Carex muricata*: 1♂ 5♀♀ in alcohol - 5♀♀ dry. The ♂ in alcohol shows the characters illustrated by Ribaut.
- Typhl. 48 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Carex muricata* - (as *Dikraneura*): 1♀ dry.
- Typhl. 50 - PIEDMONT - Caluso (TO) - (Border of Vidano - Plazio's property) - 14-X-56 - H.P. wild herbaceous plants (mainly Gramineae: *Dactylis*, *Agropyron*, etc.) - (as *Dikraneura*) - 10 individuals: 8♂♂ (6 in alcohol) 2♀♀ (1 in alcohol). Until now I did not collect *Dikraneura* parasitized by dryinids.
- Typhl. 56 - PIEDMONT - Ternavasso (TO) - (Near lake) - 18-X-56 - H.P. *Carex cespitosa*, wild Gramineae, *Potentilla* sp. - Humid environment - (as *Dikraneura*): 13 individuals of which 3♂♂ (1 dry, 2 in alcohol) and 10♀♀ (2 dry, 8 in alcohol) - H.P. *Carex* (with very long leaves) - (as *Dikraneura*): 13 individuals, of which 3♂♂ (1 dry, 2 in alcohol) 10♀♀ (2 dry, 8 in alcohol).
- Typhl. 63 - PIEDMONT - Ternavasso (TO) - (Near lake) - (Cfr. Typhl. 57) - 23-X-56 - H.P. *Carex cespitosa* - (as *Dikraneura*): 21 individuals, of which 2♂♂ (in alcohol), 19♀♀ (3 dry, 13 in tube, dry, 3 in alcohol).
- Typhl. 102 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-V-57 - H.P. *Carex muricata*, *Potentilla grandiflora* - (as *Dikraneura*): 5♂♂ 2♀♀ dry.
- Typhl. 113 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 18-VI-57 - H.P. *Lolium perenne* - Heading of the same hemp field next to a ditch and pond - (as *Dikraneura*): many ♂♂♀♀ not prepared.
- Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. polyphyte meadow - (as *Dikraneura*): some adults.
- Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Artemisia vulgaris* - (as *Dikraneura*) - On Gramineae: 1♂ not prepared.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. various wild Gramineae (humid environment) - (as *Dikraneura*):

♂ ♂ ♀ ♀ not prepared.

- Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - H.P. *Carex* ... and wild Gramineae (*Lolium perenne*, *Molinia caerulea*) - (secondary roadside crossing the woods) - (as *Dikraneura*): 3♂ ♂ dry, 12♀ ♀ (*major* and *obtusa*, not separated) in a plastic tube.
- Typhl. 200 - PIEDMONT - Barone Canavese (TO) - (Humid ditch along Bianco Pietro's field) - 28-IX-57 - H.P. wild Gramineae - (as *Dikraneura*): 1♂ 2♀ ♀ dry.
- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 12-X-57 - H.P. wild Gramineae (*Cynodon*, *Festuca*, *Poa*, etc.) - (as *Dikraneura*): 4♂ ♂ (dry), 10♀ ♀ (2 dry).
- Typhl. 220 - PIEDMONT - Caluso (TO) - 12-X-57 - H.P. *Carex* sp., *Equisetum maximum* (along the Canal's bank) - (as *Dikraneura*): ♂ ♂ ♀ ♀ - They remained one week in the glass tube feeding only on *Equisetum*, the only plant at their disposal.
- Typhl. 267 - PIEDMONT - Barone Canavese (TO) - 15-IX-58 (collecting) - 18-IX-58 (preparation) - H.P. *Carex pendula* (equals *maxima*) - (as *Dikraneura citrinella* Zetterstedt): 1♂ 4♀ ♀ not prepared.
- Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - H.P. wild Gramineae and *Carex* (humid understorey of a coppice) - (Cfr. Typhl. 188 and 195) - (as *Dikraneura*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 282 - PIEDMONT - Barone Canavese (TO) - 20-XI-58 - H.P. *Carex pendula* (= *maxima*) - (as *Dikraneura citrinella* Zetterstedt = *similis* Edwards): 1♀ (close to the neck) not prepared - I found no specimens of *Notus italicus* any more - (Cfr. Typhl. 267).
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Introd (AO) - m 888 - (Valsavaranche) - 15-IX-59 - H.P. *Carex dioica* - (as *Dikraneura citrinella* Zetterstedt = *similis* Edwards): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 307 - PIEDMONT - La Cassa-Givoletto (TO) - 31-V-61 - H.P. various Gramineae (*Agrostis alba*, *Festuca* sp.) under and near *Quercus* shrubs - (as *Dikraneura citrinella* Zetterstedt): 1♂ 2♀ ♀ dry.
- Typhl. 310 - LOMBARDY - Goito (MN) - (Hamlet Sacca) - 8-VI-61 - H.P. *Carex* sp. - Marshy zone, in an abandoned *Populus* plantation near the river Mincio - (as *Dikraneura*): 1♂ 3♀ ♀ not prepared.
- Typhl. 347 - PIEDMONT - Orco Valley (TO) - Locana m 613 - 27-IX-61 - H.P. wild Gramineae (hilly slope: shadow and humidity!) - (as *Dikraneura*): 2♂ ♂ 1♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with shrubs of various broadleaves, 6-7 m high, in continuation with the arid heading! see Typhl. 356) - Cool and relatively humid environment! - H.P. Gramineae and Cyperaceae (among shrubs of *Acer*, *Quercus*, *Corylus*) - (as *Dikraneura*): ! 1♂ 4♀ ♀ dry.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Carex* sp. (Cyperaceae: female flowers missing for its determination) - (as *Dikraneura*): 2♂ ♂ 1♀ dry.
- Typhl. 439 - PIEDMONT - Caselette (TO) - (Susa Valley) - 2-X-62 - Perennial polyphyte meadow (biotope near an apple tree: some host plants in a semi-arid environment,

others in a humid environment) - H.P. Gramineae mainly tufts of *Lolium*, *Poa*, *Festuca*, *Dactylis* - (as *Dikraneura*): 6♂♂ 9♀♀ dry - Many individuals parasitized by a pipunculid. Reared; on 4-X-62: 3 puparia reared.

Typhl. 505 - LIGURIA - Bardinetto (SV) - m 700 - 6-VIII-64 - H.P. *Carex* sp. and Gramineae - (as *Dikraneura*): ♂♂ ♀♀ not prepared.

Typhl. 507 - EMILIA-ROMAGNA - Gualdo (FC) - (Hamlet of Meldola) - Bed of the stream Bidente - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826) - H.P. *Carex* sp. and Gramineae under poplars and willows, in a humid zone - (as *Dikraneura*): 2♂♂ 5♀♀ not prepared.

Typhl. 533 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 17-X-64 - H.P. *Carex sylvatica* (+ *Scirpus* sp.) - (as *Dikraneura*): 7♀♀ of which 3 dry. Length mm 3.80-4.10. Phot. 13,141-13,142: ♀ length 3.9 mm.

Typhl. 536 - PIEDMONT - Fiano (TO) - 22-X-64 - (Ditches under *Alnus* and humid meadows mowed periodically) - H.P. *Carex repens*, *Carex montana* (or ?*sylvatica*), *Carex remota*, *Scirpus sylvaticus* (large leaves), *Carex muricata* v *divulsa* (♂♂ and ♀♀), *Molinia caerulea* (♂♂ and ♀♀) - (as *Dikraneura*): 29♂♂ 58♀♀ - phot. 13,147-13,148: ♂ dorsal and ventral, length mm 3.4; 13,149: ♀ dorsal, length mm 3.7 - (On *Juncus conglomeratus* only ♀♀) - (On *Poa*, *Holcus*, *Lolium*: ♂♂ and ♀♀ - 1♂ 1♀ parasitized by *Aphelopus* - No nymphs - The adults left on *Juncus conglomeratus* in a glass tube died within 2 days. Those with *Carex* and *Molinia* lived 6-8 days - Length of 10♂♂ mm 34 (length of smaller ♂♂ mm 3.2, the bigger ones mm 3.6) - Length of 10♀♀ mm 37 (length of smaller ♀♀ mm 3.5, the bigger ones mm 3.9) - To Knight: 2♂♂ 4♀♀ on 22-IV-65 - To Servadei: 1♂ 2♀♀ April 1971.

Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (rice fields and neighbouring wastelands) - H.P. *Carex* (ditch with water): 1♂ 2♀♀ dry.

Typhl. 574 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 16-V-68 - Along the Dora Riparia stream - H.P. *Carex* ?*muricata*: 4♂♂ 3♀♀ not prepared.

Typhl. 633 - PIEDMONT - Gattinara (VC) - Baraggia - 17-IX-81 - H.P. *Molinia caerulea* (arid): 1♂ 2♀♀ dry - H.P. *Molinia* + *Juncus* (humid): 3♂♂ 4♀♀ dry - H.P. *Molinia* + *Calluna* (glade with few birches, arid): 1♀ not prepared.

Typhl. 681 - PIEDMONT - Pavone Canavese (TO) - 17-VI-84 - H.P. *Zea mays* (35-40 cm tall with 6-7 leaves): ♂♂ and ♀♀ (coming from *Carex muricata* and *Lolium perenne*).

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Roasenda (VC) - (Heathland) - 23-V-77: 1♂ - 25-IX-77: 1♀.

FORCIPATA obtusa Vidano, 1965

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. wild Gramineae and *Carex* - (Secondary roadside crossing the woods) - Sufficiently humid environment - (*Molinia caerulea*) - (Cfr. Typhl. 195 and 272):

!!!n.sp. 1♂ Holotypus dry - 1♀ Allotypus + !? 4♀♀ dry - (as *Dikraneura furcipata*, corrected in *Forcipata obtusa*) - The classification of the ♀♀ of the 2 *Dikraneura* species (*citrinella* and *obtusa*, editor's note) is not very sure. I determined them using some *D. citrinella* ♀♀ of other localities in my collection. The *D. obtusa* ♀♀ show: 1) the head more elongated 2) the vertex pointed instead of rounded (and the same in the ♂) 3) the median lobe of the last urosternum almost truncate posteriorly and not rounded - N.B.: the pruinosity of the elytra is not a good character!

Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - H.P. *Carex*... and various wild Gramineae (*Lolium perenne*, *Molinia caerulea*) - (Secondary roadside crossing the woods) - (Cfr. Typhl. 188) - (as *Dikraneura furcipata* corrected in *Forcipata obtusa* n.sp.): 1♂ dry - 12♀♀ (with *F. major* not separated) in a plastic tube.

Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Sorghum halepense* - (as *Dikraneura*): some ♂♂♀♀ not prepared.

Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Briza media*, *Dactylis glomerata*, *Deschampsia cespitosa* (Gramineae) - (as *Dikraneura furcipata* corrected in *F. obtusa*): 1♂ dry. 2♀♀ not prepared.

Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. Gramineae (under alders) - (as *Dikraneura*): 1♂ 3♀♀ not prepared.

Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. various Gramineae - (as *Dikraneura*): 7♀♀ not prepared.

Typhl. 473 - PIEDMONT - Alpinia (Stresa) (VB) - H.P. in plots of a garden - 17-IX-63 - *Brachypodium pinnatum*, *Agrostis tenuis*, *Agrostis alba* v *typica*, *Molinia caerulea* (understorey of broadleaves and conifers) - (as *Dikraneura furcipata*, correct *F. obtusa*): 4♂♂ 4♀♀ dry (adults and nymphs) - To Knight: 1♂ 1♀ on 22-IV-65.

Typhl. 482 - PIEDMONT - Caluso (TO) - 1-X-63 - H.P. *Agrostis*, *Bromus*, *Festuca*, *Molinia* (under *Castanea*) - (as *Dikraneura furcipata*, correct *obtusa* n.sp.): 1♂ 1♀ dry - To Servadei: 1♂ 1♀, April 1971.

Typhl. 535 - PIEDMONT - Fiano (TO) - (Hill) - m 400 - Crossroad Fiano - new road to Lanzo - 22-X-64 - H.P. *Luzula nivea* v *nemorosa*, *Molinia caerulea* (under *Castanea* shrubs) - (as *Dikraneura prope furcipata*, correct *obtusa* n.sp.): 1♂ 4♀♀ dry. Phot. 13,143-13,144: ♂ dorsal and ventral, length mm 3.4; 13,145-13,146: ♀ dorsal and ventral, length mm 3.75 - (2♀♀ parasitized by a pipunculid).

Typhl. 545 - PIEDMONT - Sestriere (TO) - (Slope of Fenestrelle) - 19-VIII-66 - m 2,000 - Grassy slope exposed to North, in a relatively humid environment (sparse larches) - H.P. Gramineae (?*Deschampsia cespitosa*): 1♂ 1♀ dry.

Typhl. 547 - LOMBARDY - Val Camonica (BS) - Ponte di Legno-Passo del Tonale (4th hairpin bend) - m 1,400 - 21-VIII-66 - Mixed wood of broadleaves and conifers - H.P. *Poa*, *Festuca*, *Brachypodium sylvaticum*: 2♂♂ 1♀ and 1 nymph dry.

- Typhl. 553 - TRENTINO-ALTO ADIGE - Val Meledrio (TN) - m 900 - Locality between Dimaro and Campo Carlo Magno (conifer woods and broadleaf shrubs) - 22-VIII-66 - H.P. *Brachypodium sylvaticum*: 2♂♂ 2♀♀ dry.
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Luzula nivea* (in understorey of *Fagus*, *Castanea*, *Larix*) and other Gramineae (near the cableway): 2♂♂ 11♀♀ dry (1♂ 4♀♀ dryinidized).
- Typhl. 917 - AOSTA VALLEY - Nus (AO) - m 700 - 30-VI-88 - H.P. Gramineae among *Vitalba*: 1♀.

Box 11

GENUS *NOTUS* Fieber, 1866*NOTUS flavipennis* (Zetterstedt, 1828)

Only photos: 6,537, 6,538, 6,539, 6,540, 6,541, 6,542.

NOTUS italicus Wagner, 1954

- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 2-X-57 - H.P. *Carex* ... (in a ditch): !!! 1♀ dry - (Cfr. Typhl. 267).
- Typhl. 267 - PIEDMONT - Caluso (TO) - 15-IX-58 - (collecting) - 18-IX-58 (preparation) - H.P. *Carex pendula* = *maxima* - Presence of many adults and last instar nymphs - I collected: 14♂♂ (6 in alcohol, 4 dry, 4 in a plastic tube), 27♀♀ (10 in alcohol, 5 dry, 12 in a plastic tube), 1 nymph in alcohol - (Cfr. Typhl. 219, 360) - phot. 6,537-6,542: adults (♂♂ and ♀♀) and wings - 4-X-64 to Knight: 1♂ 2♀♀ - To Lindberg: 1♂ 2♀♀ - 3 **Drawings**.
- Typhl. 310 - LOMBARDY - Goito (MN) - (Hamlet Sacca) - 8-VI-61 - H.P. *Carex* sp., marshy zone, in an abandoned *Populus* plantation near the river Mincio: 2♂♂ 4♀♀ not prepared.
- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Carex* sp. (ditch with stagnant water): 3♂♂ 2♀♀ not prepared.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Carex* sp. (female flowers missing for its classification): 7♂♂ 9♀♀ dry - (Cfr. Typhl. 267) - Length of ♂♂ 3.1-3.6 mm - Length of ♀♀ mm 3.2-3.8.
- Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the river Timavo - (Bridge of the motorway Monfalcone and Trieste) - 2-X-61 - H.P. *Luzula pilosa* v *forsteri* (not mentioned in this locality by Marchesetti): 1♀ dry. To Servadei: 1♂ 3♀♀ April 1971.
- Typhl. 505 - LIGURIA - Bardineto (SV) - m 700 - 6-VIII-64 - H.P. *Carex* sp.: 1♂ 4♀♀ not prepared.

Box 12

Tribe EMPOASCINI Distant, 1908

GENUS *KYBOS* Fischer, 1866*KYBOS* sp.

Typhl. 322 - SARDINIA - Laerru (SS) - (m 170) - 10-VIII-61 - H.P. *Salix alba*: 2 ♀ ♀ not prepared.

Typhl. 665 - CHINA - Lanzhou - (Airport) - 1.800 m - 15-IX-83 - H.P. *Populus* (prope *P. alba*): 5 ♂ ♂ 5 ♀ ♀ dry - 6 ♂ ♂ 16 ♀ ♀ in a plastic tube (dry depigmented leaves).

KYBOS aetnicola Wagner, 1959

Typhl. 495 - SICILY - Typhlocybines collected by the Istituto Nazionale di Entomologia - Rome - Collected by Hartig in autumn 1948 in Sicily: Etna - Determination of 10-VI-1964 - *Kybos* sp.: 1 ♀, Mt. Etna, eastern slope - 1,500-1,600 m - Piano Sangillo, 30-VIII-48 on *Betula* sp. (*Empoasca* n.sp. W. Wagner det. 1949).

Typhl. 796 - SICILY - Mt. Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - H.P. *Betula aetnensis* (sparse specimens, along gullies in the middle of the pinewood): !!! 2 ♂ ♂ 1 ♀, 2 nymphs dry, 2 neanids not prepared - (Cfr. Typhl. 495).

KYBOS betulicola (Wagner, 1955)

Typhl. 500 - GREAT BRITAIN - Brockenhurst - Hampshire - New Forest - 12-VII-64 - H.P. *Betula alba*: !!! 1 ♂ 1 ♀ dry (♂ parasitized).

Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Betula verrucosa* (railing near the Medieval Castle): 3 ♀ ♀ dry - 1 5th instar nymph reared on 18-VI-II - Emerged 19-VIII-83: ♀ dry - (Cfr. Typhl. 662).

Typhl. 662 - PIEDMONT - Turin - (Valentino Park) - 19-VIII-83 - H.P. *Betula verrucosa* (railing near playing ground): 1 ♂ 3 ♀ ♀ dry - 1 4th instar nymph: reared on 18-VI-II: ♀ dry. (Cfr. Typhl. 661).

Typhl. 685 - PIEDMONT - Turin - (Valentino Park) - 22-VI-84 - H.P. *Betula verrucosa* (rearings: Demichelis): 1 ♂ 1 ♀ dry - Adults from nymphs.

Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Betula pendula*: 4 ♀ ♀ dry.

Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - (Slope of Cumiana) - H.P. *Betula verrucosa*: 6 ♂ ♂ 2 ♀ ♀ dry. Presence on not tall trees, with thick canopy and protected from strong wind behind shrubs of chestnuts, beeches and rocks - Ground with *Calluna*.

Typhl. 719 - GERMANY - Hamburg - W. Germany - "Planten un Blomen" Park - 24-VI-II-84 - (XII International Congress of Entomology) - Leg. Vidano & Arzone - H.P. *Betula ermanii* Cham.: Asia and Japan (data on label). Isolated plant in a lawn: 4 ♂ ♂ 10 ♀ ♀ dry - Several nymphs (reared).

Typhl. 729 - PIEDMONT - Valcasotto (CN) - m 950 - 16-IX-84 - H.P. *Betula pendula*

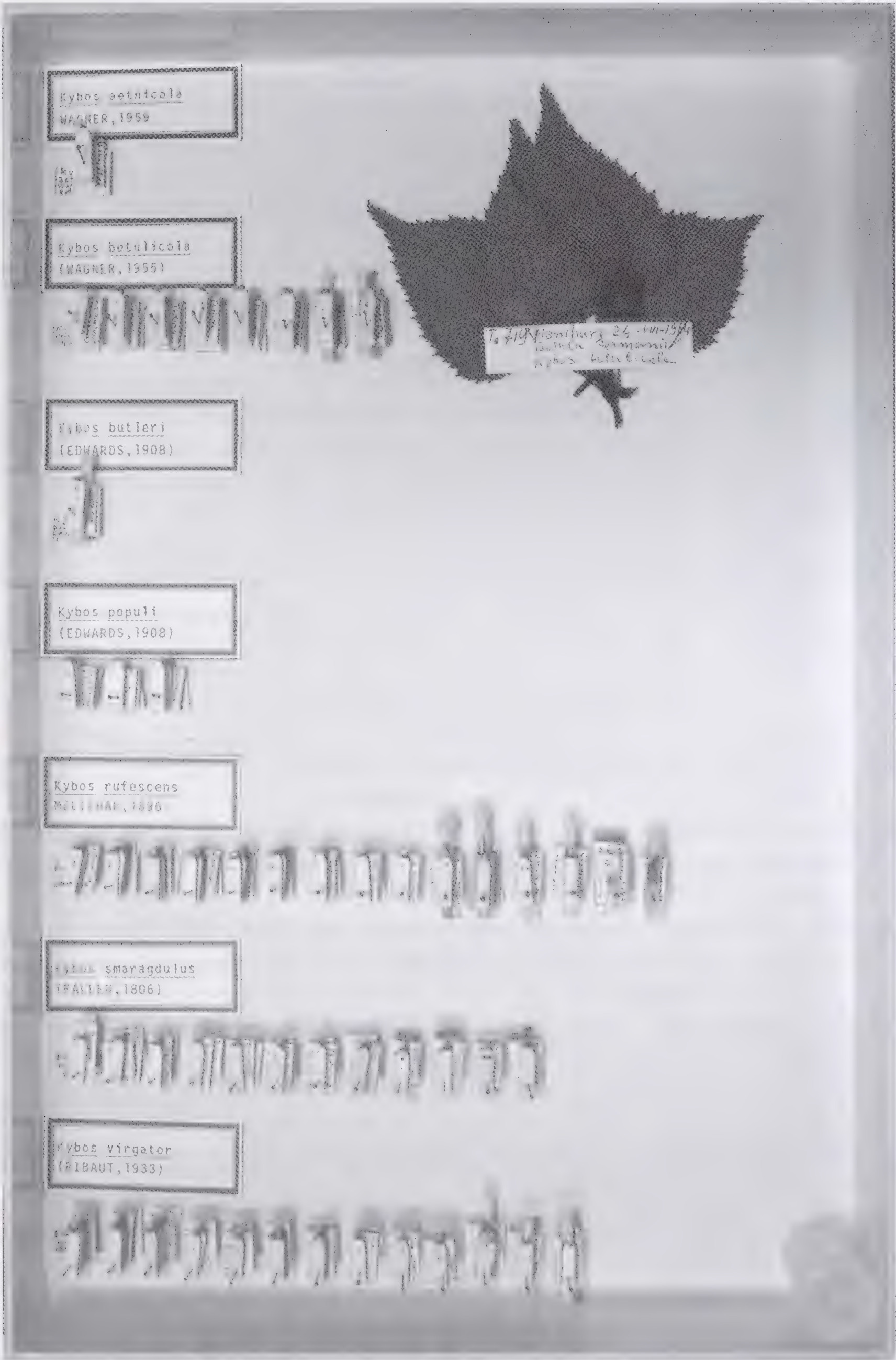


Fig. 4 - Box no. 12 - *Kybos* spp.

(small and luxuriant plants along the road, near chestnuts): 3 ♀ ♀ not prepared.

Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P.

Betula pendula (young and luxuriant plants near *Fagus*, *Salix*, and *Rubus*, in a grassy and humid plain): 9 ♀ ♀ (3 ♀ ♀ dry).

KYBOS butleri (Edwards, 1908)

Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Salix alba* and *Salix* spp. (along the river Tanaro): 4 ♂ ♂ 3 ♀ ♀ dry.

KYBOS populi (Edwards, 1908)

Typhl. 53 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 18-X-56 - H.P. *Populus euro-americana* - (as *Empoasca*): 1 ♂ (in alcohol), 1 ♀ dry.

Typhl. 207 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 4-X-57 - H.P. *Populus euro-americana* (poplar plantlets in a 2 year old nursery) - (as *Empoasca*): 1 ♂ 7 ♀ ♀ dry - N.B.: the ♂ has wings with brown veins, the ♀ ♀ no.

KYBOS rufescens Melichar, 1896

Typhl. 161 - LIGURIA - Deiva Marina (SP) - (Bed of the stream Deiva) - 16-VIII-57 - H.P. *Salix purpurea* - (as *Empoasca* Melichar = *Butleri* Edwards): 22 ♀ ♀ (4 dry, 18 in alcohol), no ♂ ♂.

Typhl. 197 - PIEDMONT - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - H.P. *Salix alba*, *Salix purpurea* - (as *Empoasca*): 13 ♂ ♂ (6 dry, 7 in alcohol), 13 ♀ ♀ (6 dry, 7 in alcohol), 2 nymphs in alcohol.

Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream from the road) - 8-X-57 - H.P. *Salix caprea* - (as *Empoasca*): 2 ♂ ♂ 5 ♀ ♀ dry.

Typhl. 214 - PIEDMONT - Ulzio (TO) - (Dora Riparia Valley) - (Downstream, one Km outside the town, along the curve and the national route) - 8-X-57 - H.P. *Salix purpurea* - (as *Empoasca*): 2 ♂ ♂ dry, 18 ♀ ♀ (6 dry).

Typhl. 271 - PIEDMONT - Stupinigi (TO) - (Bridge on the Sangone stream) - 8-X-58 - H.P. *Salix purpurea* - (as *Empoasca*): 14 ♀ ♀ in a plastic tube, no ♂ ♂ - (Cfr. Typhl. 197).

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Rosone (TO) - (Orco Valley) - 9-IX-59 - H.P. *Salix purpurea* - (as *Empoasca*) (= *Butleri*): 2 ♂ ♂ 11 ♀ ♀ not prepared.

Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - (Rhêmes Valley) - m 1,397 - 13-IX-59 - H.P. *Salix purpurea* - (as *Empoasca*): few ♂ ♂ ♀ ♀ not prepared.

Typhl. 412 - SARDINIA - River Coghinis - Bridge on the road Sassari-Tempio Pausania, after Perfugas (SS) - 16-VIII-62 - H.P. *Salix purpurea* v *eburnea* (det. Prof. Peyronel and Dal Vesco): 30 ♂ ♂ 19 ♀ ♀ + nymphs - (26 ♂ ♂ 15 ♀ ♀ dry - 4 ♂ ♂ 4 ♀ ♀, 12 nymphs in alcohol) - phot. 10,310: ♂ length mm 4; 10,309: ♀ length

mm 8 - Few or no specimens on thin canopy plants not close to the water; plenty specimens in the low part of thicker shrubs in the middle of the river (20-80 cm from the water surface). **Drawings.**

Typhl. 424 - LIGURIA - Giogo di Toirano (SV) - m 800 ~ - 16-IX-62 - H.P. *Salix rubra*: ? 1 ♀ dry.

Typhl. 458 - PIEDMONT - Ghislarengo (VC) - (Sesia bridge) - 3-VI-63 - H.P. *Salix purpurea* and *S. alba*: 3 ♂ ♂ 10 ♀ ♀ dry - Presence of 5th instar nymphs.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - H.P. *Salix caprea*: ? 1 ♂ dry.

Typhl. 507 - EMILIA-ROMAGNA - Gualdo (FC) - (Hamlet Meldola) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Salix purpurea*: 1 ♂ 10 ♀ ♀ dry.

Typhl. 614 - PIEDMONT - Cesana (TO) - 2-VIII-81 - (New road to Sestriere) - m 1,600 - H.P. *Salix purpurea*: 1 ♂ 8 ♀ ♀ dry.

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Surroundings of Noto (CT) - (Cava del Carosello) - m 400 - (Cfr. Typhl. 412) - 2-VII-79: 1 ♂.

KYBOS smaragdulus (Fallén, 1806)

Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa* - (as *Empoasca*): 1 ♀ dry - N.B.: in the only individual collected, the second apical cell of the elytra is not petiolate.

Typhl. 111 - PIEDMONT - Caluso (TO) - (Salvetti Pietro's meadow) - Dry ditch, Aiè zone - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Empoasca*): seen 1 adult, I could not collect it.

Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of farm Viola) - 28-VII-57 - H.P. *Alnus glutinosa* - (as *Empoasca*): 1 ♀ dry.

Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the orographic right side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Empoasca*): 2 ♀ ♀ dry.

Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Empoasca*): 2 ♂ ♂ dry - 1 ♂ 4 ♀ ♀ + 2 nymphs in alcohol - phot. 6,316: ♂ dry.

Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Alnus glutinosa* - (as *Empoasca*): 1 ♀ not prepared.

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Alnus viridis* - (as *Empoasca*): 2 ♀ ♀ not prepared.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - m 1,541 - 12-IX-59 - H.P. *Alnus viridis* - (as *Empoasca*): 2 ♂ ♂ 3 ♀ ♀ and 1 nymph not prepared.

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Quercus pedunculata*: ? 1 ♂ dry. Apex of the aedeagus and processes different from the normal ones. **Drawings.**

Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa*: 1 ♀ not prepared.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - H.P. *Salix alba*: ? 1♂ dry.

Typhl. 598 - PIEDMONT - Forno di Coazze (TO) - m 950 - 14-IX-80 - H.P. *Alnus glutinosa*: 1♀ dry.

Typhl. 624 - PIEDMONT - Orco Valley (TO) - (Ceresole Reale and Prese) - m 1,550 - 21-VIII-81 - *Alnus viridis* is present at the base of the dam of the lake Serrù (m 2,275) down to the lake of Ceresole Reale (m 1,600). Day with strong wind. Made many searches at different elevations. Unsuccessful even the attempts near the lake, where the wind is usually weak - H.P. *Alnus incana* present since the beginning of Ceresole Reale (m 1,600) down to Pont Canavese (and maybe Cuorgnè) always along the stream Orco. At Locana (m 616) in the small meadows also *Alnus glutinosa* starts to be present. I collected on *Alnus incana* between Ceresole Reale and Prese - (as *Empoasca*): 2♂♂ and 2 exuviae of 5th instar nymphs, dry - phot. (...): ♂ (elytra not matching) length mm 4.3; ♂ dorsal, ventral, side mm 4.4.

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - Finland (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Alnus glutinosa* (along the sea) - *Empoasca* (*Kybos*) *smaragdulus*: 2♀♀ dry. Phot. (...): 1♀ (length mm 4.6).

KYBOS virgator (Ribaut, 1933)

Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Viola farm) - 14-IX-57 - H.P. *Salix alba* - (as *Empoasca*): 4♂♂ (2 dry, 2 in alcohol), 13♀♀ (3 dry, 10 in alcohol) + 4 nymphs in alcohol.

Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Salix alba* - (as *Empoasca*): 4♀♀ dry.

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *Empoasca*): 12♀♀ (5 dry), 2 nymphs.

Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the building just after the church) - 24-IX-57 - H.P. *Salix alba* (big pollards) - (as *Empoasca*): 1♀ not prepared.

Typhl. 197 - PIEDMONT - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - H.P. *Salix alba*, *S. purpurea* - (as *Empoasca*): 1♂1♀ dry.

Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Quercus pedunculata* (small shrubs) - (as *Empoasca*): 1♂ dry (arrived there from nearby alders or willows).

Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream from the road) - 8-X-57 - H.P. *Salix caprea*: ? 3♀♀ dry.

Typhl. 347 - PIEDMONT - Locana (TO) - (Orco Valley) - m 613 - 27-IX-61 - H.P. *Salix incana* - (as *Empoasca*): 1♂7♀♀ dry.

Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Salix incana* - (as *Empoasca*): 3♀♀ dry.

Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the river Timavo (GO) - (Bridge of

- the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Salix alba*: ? 3 ♀ ♀ not prepared.
- Typhl. 424 - LIGURIA - Giogo di Toirano (SV) - m 800 approx. - 16-IX-62 - H.P. *Salix caprea* - (as *Empoasca*): 1 ♂ dry.
- Typhl. 468 - FRANCE - Urgosse (Gers) - (Domaine Garvage and Colavino Lorenzo) - 30-VIII-63 - H.P. *Salix viminalis* (near pond and vineyard), *Salix* gr. *caprea* (near pond and buildings), *S. alba* (near wood), grapevine (near *Salix viminalis*) - (as *Empoasca*): ! ♂ ♂ ♀ ♀ not prepared.
- Typhl. 471 - FRANCE - Apt - (Vaucluse) - 31-VIII-63 - H.P. *Salix alba* (near a pond) - (as *Empoasca*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge of the road Sassari-Alghero) - 27-V-64 - H.P. *Salix alba*: 1 ♂ 12 ♀ ♀ dry. **Drawings.**
- Typhl. 499 - GREAT BRITAIN - Brockenhurst - Hampshire - (Wood and relative clearings 1-2 Km from the railway station) - 12-VII-64 - H.P. *Salix caprea*: ? 1 ♂ dry (parasitized by a dryinid).
- Typhl. 527 - JUGOSLAVIJA - Obravac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Salix alba* (river Cetina): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 529 - JUGOSLAVIJA - Montenegro - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Salix alba*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 530 - JUGOSLAVIJA - Montenegro - Titograd (airfield) - 8-IX-64 - H.P. *Salix alba*: 1 ♂ dry - Arid promontory near Virpazar.
- Typhl. 596 - PIEDMONT - Castelboglione (AT) - 6-IX-80 - H.P. *Salix alba* (near the vineyard): 2 ♀ ♀ not prepared.
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Broadleaf trees prevailing: *Ostrya carpinifolia* on slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos* along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Salix elaeagnos* (= *S. incana* Schrank): 2 ♂ ♂ 13 ♀ ♀ dry.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Salix alba* and *Salix* spp. (along the river Tanaro): 1 ♀ not prepared.

BOXES 13, 14, 15

GENUS *EMPOASCA* Walsh, 1862*EMPOASCA* sp.

- Typhl. 24 - PIEDMONT - Susa (TO) - (road to Cesana) - 17-X-55 - H.P. *Populus alba*: 1 ♀ dry - Uniformly green (wings and legs included), collected on *Populus alba* too.
- Typhl. 914 - ABRUZZO - Prati di Tivo (TE) - Gran Sasso - m 1,500 - 17-VI-88 - H.P. ?: 3 ♀ ♀ not prepared.

EMPOASCA alsiosa Ribaut, 1933

- Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Apium graveolens*, *Petroselinum hortense*, *Lycopersicon esculentum* - ?or *decipiens*: 8 ♂ ♂ (3 dry, 5 in alcohol), 5 ♀ ♀ in alcohol.

- Typhl. 145 - APULIA - Gargano (FG) - (Crossroad Monte S. Angelo-Umbra Forest) - m 600 - 22-VII-57 - H.P. potato - ?*decipiens* or ?*alsiosa* - Plenty adults ♂♂ and ♀♀ and juveniles of all instars on the lower leaf page. Ovipositions and egg-laying wounds in the axis of the leaf veins or in the main vein of single leaflets; more rarely in secondary veins and in small stalks. It seems that in the leaf parenchima no eggs are laid. Potato leaves do not show neat depigmented areas, but rather yellow patches and some crispation: 2♂♂ 2♀♀ dry - Many in alcohol (20♂♂ and 20♀♀) - Many adults are parasite by *Aphelopus* larvae and are reared. The larvae of the parassite have the same green colour of the victim even after cocooning.
- Typhl. 146 - APULIA - Gargano (FG) - (Umbra Forest) - m 800 - 22-VII-57 - H.P. potato - ?*decipiens* or ?*alsiosa* - Many adults ♂♂ and ♀♀, and juveniles of all instars: 2♂♂ 2♀♀ dry - Several ♂♂ and ♀♀ in alcohol - Leaves apparently not depigmented.
- Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of Pension Clelia) - 17-VIII-57 - H.P. *Solanum nigrum* (leaves neatly depigmented): ! 1♂ dry - Well recognizable by the shape of the appendages of the pygofer lobes and of those of the “anal collar”.
- Typhl. 179 - CAMPANIA - Anacapri (NA) - (Island of Capri) - 6-IX-57 - H.P. *Vitis vinifera*: !!! 1♂ dry.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Bisagno stream) - 2-X-57 - H.P. *Chenopodium album* (leaves obviously depigmented): 1♂ dry.
- Typhl. 273 - LIGURIA - Sanremo - Locality Brezza (IM) - (Hill East of Sanremo) - 18-X-58 - Property of the flower grower Grosso - H.P. *Freesia* ?*refracta* v ?*buttercoat*: 1♂ dry. N.B.: in the investigated locality *Empoasca decipiens* is present only as adults (ratio ♂♂:♀♀ = 1:2). It is present on different plant species, besides on *Freesia* (cfr. *E. decipiens*). Concerning *Freesia*, *Empoasca decipiens* is found on luxuriant plants of 2 years born from seed, while it is absent on young plants made only of 3-4 leaves and born from small bulbs planted in July. With today's survey I should have identified possible insect vectors of a virus disease of *Freesia* and precisely the mosaic of *Freesia* (*Freesia* Mosaic Virus Woodward = *Freesia* Virus 1, Smith, pp. 259-260). The latter appears very obvious in young plants born from small bulbs planted last July. Above all (at least now) 1 or 2 central leaflets show better the symptoms of this virosis: irregular decolouring of the mesophyll visible under oblique light from both pages better than by transparency. On these young and small plantlets there are no insects. The two year old *Freesia* plants born from seed do not show apparent traces of this virosis. However, in many of them some lateral (older) leaves are in part (distally) or completely dry (rusty brown colour). This anomaly does not seem due to simple senescence of the involved leaves. Dr Rostagno of the Phytopathological Observatory of Sanremo attributes it to a *Settoria*. But it is not improbable that such an alteration is originated from feeding punctures of insects with piercing-sucking mouthparts, such as the leafhoppers (*Empoasca decipiens*) I found today (provided that these typhlocybrids live on the mentioned Iridaceae not only in autumn and winter months, but also during the good season) or aphids. On *Freesia Macrosiphum euphorbiae* is recorded, that is by the way the vector of this

virus (Smith, 260). This aphid, though not being infesting, is now surely represented in 2 year old *Freesia* crops by wingless virginogeniae isolated or surrounded by some newly born individuals.

Typhl. 319 - SICILY - Catania - (road to Etna) - Gully in the shadow of big chestnut trees - m 1,000 ~ above Nicolosi (m 698) - 10-VII-61 - H.P. *Chrysanthemum* (*Tanacetum*) *siculum!* (*vulgare*): !! 4♂♂ 5♀♀ dry.

Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Clematis vitalba*: 2♂♂ and ♀♀ not prepared.

Typhl. 323 - SARDINIA - Fertilia (SS) - 10-VIII-61 - H.P. *Medicago sativa*: ! ♂♂ ♀♀ not prepared - Many ♂♂ of the three species mixed (*E. pteridis*, *E. decedens*, *E. alsiosa*, editor's note).

Typhl. 326 - SARDINIA - San Gregorio (CA) - (road to Muravera) - (Private estate, villa with park and vegetable garden) - 12-VIII-61 - H.P. *Corylus avellana* and *Alnus glutinosa*: 1♂ 2♀♀ not prepared - (Cfr. Typhl. 337).

Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri close to the pass, but in the valley) - 14-VIII-61 - H.P. *Urtica dioica*: 2♂♂ (6 ♀♀ together with *E. decipiens*) not prepared - N.B.: near the barracks of Carabinieri there are some potatoes infested by *Empoasca*.

Typhl. 337 - SARDINIA - Aritzo (NU) - m 796 - 16-VIII-61 - H.P. *Corylus avellana* (hazelnut grove): 3♂♂ (12 ♀♀ together with *E. decipiens*) not prepared - H.P. *Castanea sativa* (coppice): 1♂ (8 ♀♀ together with *E. decipiens*) not prepared - The ♂♂ of *E. alsiosa* are generally a little smaller than *E. decipiens* and yellower and with genital blades bearing few long and flexible setae.

Typhl. 385 - SICILY - Agrigento (m 230) - (Close to Pirandello's house) - 16-IV-62 - H.P. *Arum italicum*: ! 10♂♂ dry + nymphs - (3♂♂ parasitized by *Aphelopus*).

Typhl. 386 - SICILY - Agrigento - Porto Empedocle - (Farm, before reaching Realmonte) - m 70 - 16-IV-62 - H.P. *Malva sylvestris!* (in the shadow of the farm!): 3♂♂ 1♀ not prepared.

Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne after the town) - 16-IV-62 - H.P. *Solanum sodomaeum*: ! 2♂♂ not prepared - H.P. *Angelica sylvestris* (umbellifer): ! 3♂♂ not prepared.

Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Salix purpurea*, *S. caprea*: 1♂ 1♀ not prepared.

Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - H.P. !!!*Angelica sylvestris*: 5♂♂ 3♀♀ dry.

Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi) - Near Oliena (NU) - (Eastern slope of Mount Corrasi, m 1,400) - 11-VIII-62 - H.P. *Paeonia officinalis* v *Russi* (det. B. Peyronel): 4♂♂ 3♀♀ dry.

Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - 14-VIII-62 - H.P. *Castanea sativa* (m 900) - (Plants relatively small, bushy in a reforestation among *Erica scoparia*, small holm oaks *Arbutus unedo*, *Rubus fruticosus*, etc.) - Windy day: ? ♂♂ ♀♀ not prepared.

Typhl. 409 - SARDINIA - Arzachena (OT) - m 80 - 15-VIII-62 - H.P. *Alnus glutinosa* (on the left of the road Palau-Olbia before Arzachena - Big trees near a ditch with stagnant

- water) - (Leaves of the thick canopy, near the trunk 1-2 m from the ground, very depigmented and with exuviae of 5th instar nymphs still fixed): ! 2♂♂ 1♀ not prepared.
- Typhl. 410 - SARDINIA - Arzachena (OT) - (Costa Smeralda near Porto Cervo, Porto Apulia, in the locality Lisciavacca) - 15-VIII-62 - *Salix caprea* - var *pedicillata* (det. Ariello by comparison!): 2♂♂ 2♀♀ dry.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Phaseolus vulgaris*, *Solanum melongena*, *Cucurbita pepo*: 5♂♂ 3♀♀ dry.
- Typhl. 411 - SARDINIA - Tempio Pausania (OT) - (Rinaggiu springs) - 15-VIII-62 - H.P. *Urtica dioica*: 2♂♂ + ♀♀ not prepared.
- Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Solanum melongena*: 1♂ dry.
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Solanum lycopersicon*: 1♂ (dry) and ♀♀.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) h 18-19 - (Windy) - 28-V-64 - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Windy!): 14♂♂ 5♀♀ dry.
- Typhl. 492 - SARDINIA - Fonni (NU) - (Ponte R. Ilodei, road Fonni-Mamoiada) - m 1,000 - 31-V-64 - H.P. *Alnus glutinosa*: 1♂ 1♀ not prepared.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 11-VII-77: 1♂ - 27-VI-77: 1♂ - 13-VI-77: 1♂ - 6-VI-77: 1♂.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Mount Manfrè (CT) - 5-VII-78: 1♂; 20-VIII-78: 2♂♂ - Surroundings of Noto (CT) - 5-VI-77: 1♂ - *Empoasca* sp.: 16♀♀.
- Typhl. 752 - SARDINIA - Fertilia (SS) - 9-V-85 - H.P. *Avena sterilis* (wasteland close to *Eucalyptus* and *Tamarix*): 1♂ 2♀♀ dry.
- Typhl. 796 - SICILY - Mt. Etna (CT) - road to Piano Provenzano (from Linguaglossa, m 1,500-1,600) - Pinewood (*Pinus laricio*) - 1-VIII-85 - H.P. *Betula aetnensis* (specimens spread along gullies in the middle of the pinewood): 1♂ 1♀ dry.
- Typhl. 798 - SICILY - Siracusa - River Ciane - (Papyrus) - 2-VIII-85 - h 15 - H.P. *Sorghum vulgare* with inflorescences (herbage) and *S. vulgare* (herbage 5 cm tall): 1♂ + 3♀♀ (together with *E. decipiens*) not prepared.
- Typhl. 800 - SICILY - Augusta (SR) - Bridge near the river...(between Cantera's and Mullinello's holdings: fenced) - 2-VIII-85 - h 18,30-20 - H.P. *Mentha rotundifolia* and *M. longifolia*: 3♂♂ dry.
- Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv white Trebbiano) - Talked with the grape grower. A present of 6 melons - Symptoms missing: 1♂ 2♀♀ dry.
- Typhl. 808 - SICILY - Birgi Vecchi (TP) - m 10-20 - 5-X-85 - (Wind) - H.P. grapevine cv Palpate (black grapes): 1♂ not prepared (did not find *Empoasca vitis*). Phot. 1 plant with rolled and reddened leaves, but with mature canes.

EMPOASCA decipiens Paoli, 1930

- Typhl. 33 - PIEDMONT - Turin - (Botanical Gardens) - 24-IX-56 - H.P. *Carum carvi*, *Apium graveolens*, *Angelica sylvestris* (Umbelliferae); *Amsonia tabernaemontana*, *Apocynum venetum* (Apocynaceae) - I collected 16 individuals, of which 4♂♂ and 12♀♀ (2♂♂ 9♀♀ in alcohol).
- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia's and Bianco's property) - 6-X-56 - H.P. *Alnus glutinosa*: 2♂♂ dry.
- Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Potentilla grandiflora*: presence of thousands of adults on *Potentilla*, the leaves of which are obviously depigmented - 51 individuals, of which: 23♂♂ (3 dry, 10 in alcohol, 10 in celluloid tube) 28♀♀ (3 dry, 10 in alcohol, 15 in celluloid tube).
- Typhl. 81 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 15-IV-57 - H.P. *Potentilla* sp. - A great number of individuals (but not like last autumn, see Typhl. 65), mostly ♀♀, on the lower leaf page and on stalks of *Potentilla* (30% ♂♂, 70% ♀♀) - Some are reared on *Potentilla* and on wheat to get egg-layings - Egg-layings in *Potentilla* (see **drawings**) - 1-V: 1♀ still alive. Presence of newly hatched neanids.
- Typhl. 93 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 19-V-57 - H.P. *Potentilla*: presence of few ♀♀ (4) and juveniles on the lower page.
- Typhl. 94 - PIEDMONT - Turin - (Yard of the Institute of Plant Pathology) - 20-V-57 - H.P. *Ballota nigra*: 3♀♀ (Cfr. Typhl. 26).
- Typhl. 102 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-V-57 - H.P. *Potentilla grandiflora*: presence of many juveniles of all instars - Length: 1st instar neanids mm 0.7-0.8; 2nd instar neanids mm 1-1.2; 1st instar nymph mm 1.3-1.5; 2nd instar nymph mm 1.6-1.8; 3rd instar nymph mm 2.1-2.4 - phot. 3,886 - The 3rd (last) instar nymphs are few; the adults are only represented by ♀♀ (hibernating generation): 9 in alcohol with neanids and nymphs. No ♂♂.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - (Gargano) - Near the Convent - m 600 - 5-VI-57 - H.P. fig tree: 1♂ dry - H.P. wheat: 1♀ dry (determined on the base of the length. I collected on wheat near the fig tree on which I found the ♂. Cfr. above).
- Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Locality Follocare (FG) - 6-VI-57 - H.P. humid understorey: 2♂♂ 4♀♀ dry.
- Typhl. 141 - PIEDMONT - Caluso (TO) - 18-VII-57 - H.P. *Populus tremula*: 1♀ dry. Left tegmen without the outer apical vein.
- Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Apium graveolens*, *Petroselinum hortense*, *Lycopersicon esculentum* - ?*decipiens* or ?*alsiosa*: 8♂♂ (3 dry, 5 in alcohol), 5♀♀ in alcohol.
- Typhl. 145 - APULIA - Gargano (FG) - (Crossroad Monte S. Angelo - Umbra Forest) - m 600 - 22-VII-57 - H.P. potato - ?*decipiens* or ?*alsiosa* - Plenty adults ♂♂ and ♀♀ and juveniles of all instars on the lower leaf page. Ovipositions and egg-laying wounds in the axis of the leaf veins or in the main veins of single leaflets; more rarely in secondary veins and in small stalks. It seems that in the leaf parenchyma

no eggs are laid. The potato leaves do not show neat depigmented areas yet yellow patches and some crispations - 2♂♂ 2♀♀ dry - Many adults (20♂♂ and 20♀♀) in alcohol - Many adults are parasitized by *Aphelopus* larvae and are reared. The parasite's larvae have the same green colour of the victim also after cocooning.

Typhl. 146 - APULIA - Gargano (FG) - (Umbra Forest) - m 800 - 22-VII-57 - H.P. potato - ?*decipiens* or ?*alsiosa* - Many adults ♂♂ and ♀♀, as well as juveniles of all instars: 2♂♂ 2♀♀ dry - Several ♂♂ and ♀♀ in alcohol - Leaves apparently not depigmented - H.P. *Sambucus nigra* (having leaves without smell) and *Arctium lappa*: 2♂♂ 2♀♀ dry - Other ♂♂ and ♀♀ in alcohol - Presence of juveniles too. Very depigmented leaves.

Typhl. 149 - APULIA - Chiatona (TA) - 23-VII-57 - H.P. *Beta saccharata*: 17♂♂ (2 parasitized by dryinids) 4 of which dry, 13 in alcohol; 24♀♀ (3 parasitized by dryinids) 4 of which dry, 20 in alcohol - The host plant is harvested in these days. The older leaves are dry while the central ones are green and host the leafhoppers, that are present with young stages too. The same leaves do not show depigmented areas, but the margin very crisped. Only 2♂♂ and 3♀♀ are parasitized by dryinid larvae.

Typhl. 150 - PIEDMONT - Caluso (TO) - (Vidano's home) - 28-VII-57 - H.P. *Prunus persica*: 1♂ dry.

Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Sambucus nigra*: 6♂♂ (3 dry, 3 in alcohol), 2♀♀ (1 dry, 1 in alcohol) - phot. 4,221: ♂; 4,222: tegmen and wing of a ♂.

Typhl. 152 - PIEDMONT - Bruschi (Cantoira) (TO) - (Forno Alpi Graie Valley) - 1-VI-II-57 - H.P. potato: 1♂ dry - H.P. *Cannabis sativa*: 1♂ dry - Presence of ♂♂ and ♀♀ adults and juveniles.

Typhl. 153 - PIEDMONT - Cantoira (TO) (Forno Alpi Graie Valley) - 1-VIII-57 - H.P. *Cannabis sativa*: 1♂ dry.

Typhl. 159 - PIEDMONT - Exilles-Salabertano (TO) - 6-VIII-57 - H.P. *Clematis vitalba*: 11♂♂ 12♀♀ (1♂ 1♀ dry) - Crawling. Recent growth very extended on the left of the road. Many leaves considerably depigmented: presence of only *E. decipiens*. - H.P. *Vicia faba*: many ♂♂ and ♀♀ adults in the same ratio (20:20) many of which parasitized by *Aphelopus*. Also several nymphs there: 1♂ 1♀ dry.

Typhl. 160 - PIEDMONT - Caluso (TO) - (Tululena's field - Canal's hedge) - 10-VIII-57 - H.P. *Sambucus nigra*: 4♂♂ 1♀ dry - Presence of many adults and several juveniles, above all 4th and 5th instar nymphs. I cannot see other *Empoasca* species (e.g. *flavescens* and *pteridis*, that are abundant in this area).

Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of the Pension Clelia) - 17-VI-II-57 - H.P. *Parietaria officinalis* v *judaica*: presence of several adults (12♂♂ 12♀♀) - 3♂♂ dry - H.P. *Amaranthus hybridus* v *patulus* (leaves clearly depigmented): several adults ♂♂ and ♀♀ and some nymphs - 2♂♂ dry - H.P. *Solanum nigrum* (leaves clearly depigmented): several adults, 15♂♂ 13♀♀ not prepared - H.P. *Vitis vinifera* v ... (leaves clearly depigmented: white spots): several adults, more ♂♂ (7) than ♀♀ (5) not prepared.

Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - (Along the stream North-East of the village) - 17-VIII-57 - H.P. *Vitis vinifera*: 1♂ dry.

- Typhl. 165 - LIGURIA - Manarola (SP) - (Cinque Terre) - 18-VIII-57 - H.P. *Parietaria officinalis* v *judaica* (on small walls with mixed plants of *Potentilla* and various grasses): 1♂ 1♀ not prepared.
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Vitis vinifera*: 2♂♂ 4♀♀ not prepared - H.P. *Prunus domestica*: 2♂♂ 2♀♀ not prepared - H.P. *Salix alba*: 1♂ 1♀ not prepared.
- Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Sambucus nigra* (leaves very finely depigmented, silvery) - Many adults not prepared.
- Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Artemisia japonica*, *A. camphorata*, *A. pontica*: presence of some individuals on all *Artemisia* species mentioned above - 2♂♂ 5♀♀ not prepared.
- Typhl. 172 - TUSCANY - Porto S. Stefano (GR) - (Orbetello) - 1-IX-57 - H.P. *Vitis vinifera*: 2♂♂ 1♀ not prepared.
- Typhl. 174 - CAMPANIA - Pagani (SA) - (Near Nocera) - (Falcone Tobia's orchard, Via Romana 7) - 2-IX-57 - H.P. orange tree: some adults (2♂♂ 1♀) dry - H.P. *Lycopersicon* (tomato): several adults (8♂♂ 15♀♀) not prepared - Poggio Marino (NA) - H.P. *Medicago sativa*: (12♂♂ 14♀♀), 2♂♂ 1♀ dry - H.P. *Cannabis sativa* (few plants at the end of the single properties): 1♂ 2♀♀ not prepared.
- Typhl. 175 - CAMPANIA - Nola (NA) - 3-IX-57 - H.P. *Vitis vinifera*, few rows in the middle of renewal crops and vegetables. Quite humid environment. Leaves characteristically depigmented - I collected 7♂♂ (3 dry), 5♀♀ (2 dry) - H.P. *Amaranthus patulus*: 7♀♀, no ♂♂.
- Typhl. 176 - CAMPANIA - S. Maria Capua Vetere (CE) - 3-IX-57 - H.P. *Cannabis sativa* (depigmented leaves): presence of quite many adults, mostly ♀♀ (♀♀/♂♂ ratio = 10/6): 1♂ 2♀♀ dry - H.P. *Solanum nigrum* (depigmented leaves): 5♂♂ 8♀♀ not prepared - Capua (CE) - H.P. *Nicotiana tabacum* (Kentucky): depigmented leaves; several adults. Among the 20 collected 11 are ♂♂. Not prepared.
- Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Vitis vinifera*: 1♂ 2♀♀ - not prepared - H.P. *Solanum nigrum*: 5♂♂ not prepared.
- Typhl. 181 - CAMPANIA - Positano (SA) - (Small beach towards Amalfi) - 8-IX-57 - H.P. *Artemisia campestris*: few adults (2♂♂ and 3♀♀) not prepared - H.P. *Lavatera arborea*: 3♂♂ 8♀♀ not prepared.
- Typhl. 184 - LATIUM - Montalto di Castro (VT) - 9-IX-57 - H.P. *Quercus pedunculata* and *Q. cerris*: 10 adults of which 5♂♂ 5♀♀ - 2♂♂ 2♀♀ dry - N.B.: no herbaceous plants nearby.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Corylus avellana* (wild): 2♂♂ 1♀ not prepared, probably coming from nearby herbaceous crops.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Alnus glutinosa*, hedge with 1 year old canopy close to *Zea mays* and *Phaseolus vulgaris*: 6♂♂ 8♀♀ (very probably coming from nearby herbaceous crops) not prepared.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa*: 4♂♂ 10♀♀ not prepared.

- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. grapevine (*Vitis labrusca*): 1 ♂ 1 ♀ .
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Bisagno stream) - 2-X-57 - H.P. *Chenopodium album*: I collected 13 ♂ ♂ 18 ♀ ♀ (2 ♂ ♂ dry).
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Acer platanoides* (young wild plantlets): 1 ♂ 1 ♀ dry - H.P. *Chrysanthemum indicum*: 1 ♂ 2 ♀ ♀ dry - H.P. *Chrysanthemum balsamita* (costmary): I collected several adults (15 ♂ ♂ 21 ♀ ♀) - 3 ♂ ♂ 2 ♀ ♀ dry - N.B.: on this plant, that is in the same plot of *C. indicum*, there is no *Empoasca pallida*.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana*: 4 ♂ ♂ 7 ♀ ♀ not prepared - H.P. *Populus nigra*: 1 ♂ 1 ♀ not prepared - H.P. *Salix purpurea*: 1 ♂ 2 ♀ ♀ not prepared - H.P. *Artemisia campestris*: 1 ♂ not prepared.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri - (Near *Chenopodium album*) - 14-X-57 - H.P. *Carpinus betulus*: ! 2 ♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo, strada Valpiana 31) - 14-X-57 - H.P. *Chrysanthemum indicum* - (Cfr. Typhl. 210): 2 ♂ ♂ dry, 3 ♀ ♀ not prepared - H.P. *Sophora japonica*: 5 ♂ ♂ (2 dry, 3 in a plastic tube), 8 ♀ ♀ not prepared - For the description of *Empoasca pallida* n.sp. I consider these ♂ ♂ *E. decipiens* in which the upper pygofer appendages have a shape close to those of *E. pallida*.
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal - Tululena's field) - 26-X-57 - H.P. grapevine (Vidano): 1 ♂ 1 ♀ not prepared.
- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - H.P. *Ligustrum ovalifolium*: 2 ♂ ♂ 2 ♀ ♀ dry - H.P. *Laurus nobilis*: 1 ♂ 1 ♀ dry.
- Typhl. 232 - PIEDMONT - Caluso (TO) - 5-IV-58 - H.P. *Lonicera*: 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 233 - PIEDMONT - Caluso (TO) - (Tululena's field) - 10-V-58 - H.P. *Rubus fruticosus*: 2 ♀ ♀ dry.
- Typhl. 234 - PIEDMONT - Barone Canavese (TO) - 19-V-58 - H.P. *Sambucus nigra*: 11 ♀ ♀ (no ♂ ♂). Reared on grapevine.
- Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - H.P. *Solanum tuberosum*: 10 ♀ ♀ (reared on grapevine) - Susa (TO) - (road to Cesana) - H.P. *Vitis vinifera*: 1 ♂ not prepared.
- Typhl. 238 - PIEDMONT - Exilles-Salabertano (TO) - 21-V-58 - H.P. *Clematis vitalba*: 5 ♀ ♀ not prepared.
- Typhl. 239 - PIEDMONT - Ulzio (TO) - 21-V-58 - H.P. *Thalictrum flavum*: 1 ♀ not prepared.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Chrysanthemum balsamita*: 4 ♂ ♂ 1 ♀ not prepared.
- Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Bryonia dioica* (depigmented leaves) - From nymphs: ♂ ♂ ♀ ♀ not prepared.

Typhl. 273 - LIGURIA - Sanremo (IM) - (Locality Brezza property of the flower grower Grosso, hills East of Sanremo) - 18-X-58 - H.P. *Beta vulgaris* (*B. costa*, *Solanum melongena*, *Lycopersicon esculentum*): presence of several adults 1♂ 3♀ ♀ dry - H.P. *Vitis vinifera*: 2♂ ♂ 3♀ ♀ dry - H.P. *Phaseolus vulgaris*: presence of several adults, 2♂ ♂ 2♀ ♀ dry - H.P. *Freesia ?refracta ?v buttercoat*: 7♂ ♂ 12♀ ♀ plastic tube. N.B.: in the investigated locality *Empoasca decipiens* is now present only as adults (♂ ♂ : ♀ ♀ ratio = 1:2). It is present on different plant species, besides on *Freesia* (Cfr. *E. alsiosa*). Concerning *Freesia*, *Empoasca decipiens* is found on luxuriant plants of 2 years of age born from seeds, while I do not find it on young plants made only of 3-4 leaves and born from small bulbs planted in July. With today's survey I had to identify possible insect vectors of a virus disease of *Freesia* and precisely the mosaic of *Freesia* (*Freesia* Mosaic Virus Woodward = *Freesia* Virus 1, Smith, pp. 259-260). It appears very obvious in young plants born from small bulbs planted last July. Above all (at least now) 1 or 2 central leaflets show better the symptoms of this virosis: irregular decolouring of the mesophyll visible under oblique light from both pages better than by transparency. On these young and small plantlets there are no insects. The two year old *Freesia* plants born from seed do not show apparent traces of this virosis. However, in many of them some lateral (older) leaves are in part (distally) or completely dry (rusty brown colour). This anomaly does not seem due to simple senescence of the involved leaves. Dr Rostagno of the Phytopathological Observatory of Sanremo attributes it to a *Settoria*. But it is not improbable that such an alteration is originated from feeding punctures of insects with piercing-sucking mouthparts, such as the leafhoppers (*Empoasca decipiens*) I found today (provided that these typhlocybrids live on the mentioned Iridaceae not only in autumn and winter months, but also during the good season) or aphids. On *Freesia* *Macrosiphum euphorbiae* is recorded, that is by the way the vector of this virus (Smith, 260). This aphid, though not being infesting, is now surely represented in 2 year old *Freesia* crops by wingless virginogeniae isolated or surrounded by some newly born individuals.

Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Salix purpurea* (small low and very thick shrubs): 2♂ ♂ 2♀ ♀ not prepared - Bussoleno (TO) - (On the left of the military road) - H.P. *Quercus sessiliflora*: 1♂ 1♀ not prepared.

Typhl. 276 - PIEDMONT - Caluso (TO) - (Vidano's home and along the Canal) - 1-XI-58 - H.P. *Lonicera caprifolium*, *L. japonica*: 1♂ 2♀ ♀ not prepared.

Typhl. 278 - PIEDMONT - Turin - (road of S. Vito) - 9-XI-58 - H.P. ... (Cruciferae), *Sambucus nigra*: 2♂ ♂ 1♀ not prepared.

Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Ligustrum ovalifolium*: 32♂ ♂ 18♀ ♀ (in part dry and in part in a plastic tube) - Together with *Empoasca pallida* Vidano: 18♂ ♂ 9♀ ♀ (in part dry, in part in a plastic tube) - (Cfr. Typhl. 223 and 349) - N.B.: the ♂ ♂ were all determined by examining the genitalia, confirming that the yellowish individuals (alive) are *E. pallida* while the ♀ ♀ were determined simply by the colour, that is not very different in the ♀ ♀ of both species.

- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - 12-IX-59 - Locality between Ruinaux (m 1,464) and Fénille (m 1,310) - m 1,120 - H.P. *Corylus avellana*: 3♂♂ not prepared.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Introd (AO) - m 888 - (Valsavaranche) - 15-IX-59 - H.P. *Salix caprea* (low shrubs in a shady place, on the edge of a polyphyte meadow): !!! 2♂♂ dry, 1 of which normal, green, and the other one of an intense lemon yellow colour, like in ♂♂ of *Typhlocyba Douglassi*.
- Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - H.P. *Rubus fruticosus*: 1♂ 2♀♀ not prepared.
- Typhl. 309 - LOMBARDY - Goito (MN) - (road to Peschiera) - 8-VI-61 - H.P. *Lonicera caprifolium* (very depigmented leaves): 1♂ 2♀♀ not prepared.
- Typhl. 314 - CALABRIA - Crotone - (Ente Riforma farm) - 8-VII-61 - H.P. *Beta vulgaris* - Many specimens: 1♂ (+ genitalia of another ♂), 2♀♀ dry. ♂♂ with appendages of the anal collar showing the proximal lobe very elongated. **Drawing.**
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica near the lake Arvo (CS) - Mazzei Giuseppe's house (bandit Grimoli) - m 1,400 - 9-VII-61 - H.P. *Chrysanthemum balsamita*: 1♂ 6♀♀ not prepared - H.P. *Sambucus nigra*: 3♂♂ 13♀♀ not prepared - H.P. *Solanum tuberosum*: !! 11♂♂ 32♀♀ + many juveniles not prepared.
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Clematis vitalba*: 2♂♂ and ♀♀ (mixed with *E. alsiosa*) not prepared.
- Typhl. 326 - SARDINIA - San Gregorio (CA) - road to Muravera (private holding: villa with park and vegetable garden) - 12-VIII-61 - H.P. *Corylus avellana* and *Alnus glutinosa* - (Cfr. Typhl. 337): 1♂ 3♀♀ not prepared.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri, close to the Pass, but in the valley) - 14-VIII-61 - H.P. *Urtica dioica*: 4♂♂ 3♀♀ not prepared - H.P. *Polystichum filix-mas*: 10♂♂ 6♀♀ dry - N.B.: near the barracks of Carabinieri there are potatoes infested by *Empoasca*.
- Typhl. 334 - SARDINIA - Arcu Correboi Valley (NU) - (Before the pass, towards Fonni, near the isolated barracks of Carabinieri, along the road Fonni-Lanusei) - 14-VIII-61 - H.P. *Alnus glutinosa*: 6♂♂ 4♀♀ not prepared.
- Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small spring - 16-VIII-61 - H.P. *Urtica dioica* and *Parietaria officinalis*: 2♂♂ 3♀♀ - H.P. *Satureja calamintha* (glandular stipules ?Ceruti): 1♂ 3♀♀ not prepared.
- Typhl. 337 - SARDINIA - Aritzo (NU) - m 796 - 16-VIII-61 - H.P.: *Corylus avellana* (hazelnut grove): 7♂♂ (12♀♀ together with *E. alsiosa*) - H.P. *Castanea sativa* (coppice): 5♂♂ (8♀♀ together with *E. alsiosa*). N.B.: the *alsiosa* ♂♂ are generally a little smaller than those of *decipiens*, and yellower and with the genital blades holding few long and flexible setae.
- Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Acer monspessulanum*: ! 4♂♂ 2♀♀ not prepared.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus*: 1♂ 1♀ not prepared.
- Typhl. 346 - PIEDMONT - Caluso (TO) - Briamara - (Hedge along the Canal, near Scapino's

- orchard) - 23-IX-61 - H.P. *Artemisia vulgaris*: ! 2♂♂ 2♀♀ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the sides of roads protected by barbed wire) - 1-X-61 - H.P. *Quercus sessiliflora*: 1♂ 1♀ not prepared.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa*: 1♂ not prepared.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Ostrya carpinifolia*: 2♂♂ not prepared - H.P. *Cornus sanguinea*: 2♂♂ 1♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf shrubs, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata*: 1♂ 1♀ not prepared - H.P. *Corylus avellana*: 2♂♂ 4♀♀ not prepared - H.P. *Acer campestre*: 1♂ 2♀♀ not prepared.
- Typhl. 358 - FRIULI-VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Populus alba*: 1♂ not prepared.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Rhamnus frangula*: 1♂ not prepared.
- Typhl. 361 - FRIULI-VENEZIA GIULIA - Timavo estuary - (Bridge of the motorway Monfalcone and Trieste) - 2-X-61 - H.P. *Salix alba*: 2♂♂ not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza (at the mouth of the Bear's cave) - 3-X-61 - H.P. *Urtica dioica*: 1♂ 1♀ - H.P. *Cornus sanguinea*: ♂♂ ♀♀ - H.P. *Rhus cotinus*: 1♂ 1♀ not prepared - H.P. *Lamium orvala* (mixed with above mentioned nettles) - (Humid environment, constantly shaded, at the mouth of the Bear's cave): 1♂ 1♀.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste - Noghera - 3-X-61 - Old saltworks between Trieste and Muggia - Day of strong Bora! wind- H.P. !*Artemisia annua*!: 1♂ not prepared.
- Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - Close to the tunnel of Quassolo - 13-X-61 - H.P. *Rosmarinus officinalis* - (Against a rock wall exposed southwards, next to a *Mespilus japonica* plant) - I collected during the night: 1♂ 2♀♀.
- Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - H.P. *Althaea officinalis*: 1♂ 1♀ not prepared.
- Typhl. 384 - SICILY - Siracusa - (Rock wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. !*Reichardia picroides* (Compositae) and *Parietaria officinalis* (humid ledge): 1♂ 2♀♀ dry.
- Typhl. 385 - SICILY - Agrigento - m 230 - (Close to Pirandello's house) - 16-IV-62 - H.P. *Prunus amygdalus* (almond): 1♂ dry.
- Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne, after the town) - 16-IV-62 - H.P. *Solanum sodomaeum*: ! 2♂♂ not prepared - H.P. *Angelica sylvestris* (umbellifer): ! 3♂♂ not prepared.
- Typhl. 389 - SICILY - Palermo - (Botanical gardens) - 17-IV-62 - H.P. *Artemisia seni-*

avenensis (very similar to *A. vulgaris*): 6♂♂ 5♀♀ + nymphs - H.P. *Senecio bicolor*, *S. subscandens*, *S. aquaticus*, *S. maritimus*: 6♂♂ 13♀♀ + nymphs dry (together).

Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Close to the mine) - 10-VIII-62 - H.P. *Medicago sativa* (Mowed and windy: *E. decipiens* moving onto occasional hosts): 8♂♂ dry + ♀♀ (not prepared) - H.P. *Solanum tuberosum*: 5♂♂ + ♀♀ not prepared - H.P. *Sambucus nigra*: 11♂♂ 4♀♀ not prepared - H.P. *Urtica dioica*: ? 3♀♀ not prepared - H.P. *Rubus fruticosus*: 13♂♂ 15♀♀ not prepared (probably coming from nearby plots of potato and alfalfa; day of strong wind) - H.P. *Alnus glutinosa*: 1♂♀♀ not prepared.

Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi), near Oliena (NU) - 11-VIII-62 - I collected at m 1,000-1,100 - H.P. *Arbutus unedo* (m 700) - Presence of several adults: 2♂♂ dry.

Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena) - Bridge of the road Tempio-Palau - 13-VIII-62 - H.P. *Solanum nigrum*: ! 3♂♂ (1 dry), 10♀♀.

Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - 14-VIII-62 - H.P. *Pteris aquilina* (I collected at different heights: m 900-1,300): 8♂♂ 5♀♀ dry. H.P. *Castanea sativa* (m 900) - (Relatively small, bushy plants, of a reforestation. Elevation m 900 among *Erica scoparia*, small holm oaks, *Arbutus unedo*, *Rubus fruticosus*, etc.) - Windy day: ? 10♂♂ 10♀♀ dry (?*decipiens*).

Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Phaseolus vulgaris*, *Solanum melongena*, *Cucurbita pepo*: ! 1♂ dry.

Typhl. 411 - SARDINIA - Tempio Pausania (OT) - (Rinaggiu springs) - 15-VIII-62 - H.P. *Urtica dioica*: 3♂♂ + ♀♀ not prepared.

Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, a little before the town, on the left of the road, coming from Ceva) - 14-IX-62 - H.P. *Chrysanthemum* (*Tanacetum*) *vulgare*: 1♂ 1♀ not prepared.

Typhl. 417 - LIGURIA - Rezzo (IM) - m 500 ~ - 14-IX-62 - (Coming from Pieve di Teco, locality populated by *Rhus cotinus*) a little before Rezzo - H.P. *Rhus cotinus*: 1♂ 7♀♀ - (coming from *Sambucus* and *Clematis*!!) - Strong wind, a steep slope, the abundance of brambles did not let me examine well this plant, it is not improbable that also in this locality *R. cotinus* hosts some interesting Typhlocybiidae species, like in the zone of Trieste where one meets *Zyginella pulchra*. The basal leaves, less exposed to the wind, are in fact very depigmented.

Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *M. rotundifolia* (in the stream): 2♂♂ 2♀♀ not prepared.

Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Solanum melongena*: 5♂♂ 4♀♀ dry.

Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI) - (Gullies close to Ponti) - 20-IX-62 - H.P. *Solanum melongena*: ♂♂ ♀♀ + juveniles not prepared.

Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Solanum lycopersicon*: 2♂♂ dry + ♀♀ - H.P. *Phaseolus vulgaris* (200 m far from the above mentioned tomato): 1♂ and ♀♀ not prepared.

- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at m 400 ~, 1 Km ~ before the village, coming from Poggio) - 20-IX-62 - H.P. *Castanea sativa* (very low shrubs): 1 ♂ not prepared.
- Typhl. 430 - TUSCANY - Elba Island (LI) - (Point of the cave on the right of the road to Porto Azzurro. Wood of *Quercus suber* and *Q. ilex* with a rich and cool understorey, and exposed northwards) - 21-IX-62 - H.P. *Ononis* sp. (in the shade of holm oaks - leaves slightly depigmented): 5 ♂ ♂ 3 ♀ ♀ dry.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Urtica dioica*: 1 ♂ dry.
- Typhl. 440 - SARDINIA - Burcei (CA) - m 740 - 7-X-62 - H.P. *Vitis vinifera*: ? 1 ♀ dry.
- Typhl. 445 - SICILY - (Leg. dr Sampò) - Marsala (TP) - 9-X-62 - H.P. *Vitis vinifera*: ! 1 ♂ 1 ♀ not prepared.
- Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa*: 2 ♂ ♂ 2 ♀ ♀ (coming from nearby *Sambucus*) not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Close to the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.): 2 ♂ ♂ not prepared - H.P. *Matricaria* sp.: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Vitis vinifera*: 1 ♂ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Quercus ilex*: 1 ♂ not prepared.
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - Day of strong wind - H.P. *Teucrium chamaedrys*, *Festuca rubra*, *Parietaria* sp., *Satureja calamintha*, *Poa* sp. - North and at the base of rocks sheltering the vegetation beneath: 1 ♂ 3 ♀ ♀ (coming from nearby crops) not prepared.
- Typhl. 485 - JUGOSLAVIJA - Titograd (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. grapevine: 2 ♂ ♂ dry 1 ♀ to Papevic. "Found sporadically on grapevine".
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Sambucus nigra*: 5 ♂ ♂ 5 ♀ ♀ dry - H.P. *Paeonia officinalis* v *russi*: 8 ♂ ♂ 10 ♀ ♀ dry - *Geranium lucidum*, *Lamium garganicum corsicum*! (in pseudofoibas) - In this biotope nettles are not present - phot. 12,594, 12,595: *Paeonia officinalis*.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - H.P. *Polystichum filix-mas*: ♂ ♂ and ♀ ♀ . 1 ♂ 1 ♀ dry.
- Typhl. 491 - SARDINIA - Arcu Tascussì - (Gennargentu mts.) - road Desulo-Fonnì (NU) - m 1,000 - 31-V-64 - (Small humid valleys with tall *Ilex aquifolium*) - H.P. umbellifer (?*Oenanthe*): 4 ♂ ♂ 4 ♀ ♀ dry.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - H.P. *Mentha*, *Glechoma*, *Lycopus*, *Stachys*, *Centaurea*, etc.: 6 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep) - H.P. *Sambucus ebulus*: 2 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the As-

- tronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens* (in the Botanical gardens): 1 ♂ dry.
- Typhl. 522 - JUGOSLAVIJA - Split - Experimental field of the Institut Zajadranske Kulture - 2-IX-64 - H.P. *Vitis vinifera*: 3 ♂ ♂ 1 ♀ dry - H.P. *Phaseolus vulgaris*: 1 ♂ 5 ♀ ♀ dry.
- Typhl. 523 - JUGOSLAVIJA - Split - Svilaja - Slope of Otišić - m 800-1,000 - 3-IX-64 - H.P. *Solanum tuberosum*: ! ♂ ♂ ♀ ♀ not prepared. Both species (*E. pteridis*, editor's note) very parasitized by *Aphelopus*.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - H.P. *Thymus serpyllum* v *chamaedrys*: 1 ♂ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 (close to the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic road, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of N-E slope of Dinara Planina. Dolinas, etc. - H.P. *Sambucus ebulus*: 4 ♂ ♂ 4 ♀ ♀ dry.
- Typhl. 527 - JUGOSLAVIJA - Obrovac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Phaseolus vulgaris*: ♂ ♂ ♀ ♀ not prepared - H.P. *Nicotiana tabacum*: few ♂ ♂ and ♀ ♀ not prepared.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - Mura, m 150-200-300 East of the town (*Quercus ?pubescens*) - 6-IX-64 - H.P. *Festuca* and other Gramineae (under shrubs of ornamental plants): 1 ♂ dry.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,300 - (Locality near Njeguši. On the road Kotor-Cetinje) - 7-IX-64 - H.P. *Carpinus betulus*: 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 528 ter - JUGOSLAVIJA - Montenegro - Titograd (vineyard of the Institute of Agromomic Research) - 7-IX-64 - H.P. *Vitis vinifera*: !! 2 ♂ ♂ 2 ♀ ♀ dry (presence of juvenile stages too; leaves with browned veins). Adults unusually small, length of ♂ ♂ mm 2.7-3.1 - Length of ♀ ♀ mm 2.9-3.4 (I examined about twenty ♂ ♂: *E. pteridis* and *E. flavescens* are not found) - H.P. *Thea sinensis* (experimental crop): 2 ♂ ♂ 2 ♀ ♀ (scarcely present).
- Typhl. 533 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 17-X-64 - H.P. *Rubus fruticosus*, *R. idaeus*, *Potentilla ?grandiflora*: ? 2 ♂ ♂ dry (length mm 3).
- Typhl. 534 - ISRAEL - (Leg. dr Harpaz) Rehovot - 10-X-64 - H.P. *Solanum tuberosum*: 1 ♂ 6 ♀ ♀ (5 ♀ ♀ parasitized by *Aphelopus*), 1 nymph dry. H.P. *Vitis vinifera*: ? 2 ♀ ♀ dry.
- Typhl. 568 - PIEDMONT - Vercelli - (rice fields and nearby wastelands) - 8-IX-66 - H.P. *Stachys palustris* (in a humid ditch): 5 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 578 - CAMPANIA - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter's reference no. 1,102 of 25-VI-74 - 24-V-66: 1 ♀ - Ventotene (traffic light) - 6-IV-66: 1 ♂.
- Typhl. 579 - LOMBARDY - Pavia - (Santa Maria della Versa) - Determination for prof. G. Domenichini, reference no. 3,825 of 29-XII-76; see joint copy - 25-VIII-76 - H.P. grapevine: 4 ♂ ♂ 3 ♀ ♀.
- Typhl. 580 - SARDINIA - Typhlocybrids of Sardinia (Prof. Romolo Prota) determined by

- Vidano and Arzone on 21 September 1977 - Ossi (SS) - 30-VII-76: 1♂ - 30-VI-76: 1♂.
- Typhl. 590 - TUSCANY - Grosseto - (Marina) - 19-VIII-80 - H.P. *Myrtus communis*: 10♂♂ 5♀♀ dry - H.P. *Pistacia lentiscus*: 6♂♂ 3♀♀ dry - H.P. *Quercus pubescens*: 2♂♂ 5♀♀ not prepared.
- Typhl. 592 - PIEDMONT - Bibiana (TO) - m 460 - Park of the Castle (Marquise Cattaneo) - 29-VIII-80 - H.P. ornamental plant: prope *Ampelopsis*: 4♂♂ 7♀♀ not prepared.
- Typhl. 607 - PIEDMONT - Val Grande di Lanzo - (Forno Alpi Graie) - Near Ceres (TO) - m 650 - 21-VI-81 - H.P. *Solanum tuberosum* (scarce): ? 2♀♀ dry.
- Typhl. 609 bis - PIEDMONT - Castel del Bosco (TO) - (Roreto) - m 800 - 5-VIII-81 - H.P. *Solanum tuberosum*: 1♀ ! dry.
- Typhl. 610 - PIEDMONT - Perosa Argentina (TO) - m 650 ~ - Rio La Greve - 5-VIII-81 - H.P. *Solanum tuberosum*: 3♂♂ 4♀♀ not prepared.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Carpinus betulus* (hedge along the road): 1♂ not prepared.
- Typhl. 643 - PIEDMONT - Villar Perosa (TO) - m 800 - 18-VII-82 - H.P. *Vitis vinifera*, *Solanum tuberosum*: 3♂♂ 4♀♀ not prepared.
- Typhl. 651 - LATIUM - 4-XI-82 - H.P. poplar (nursery of the Centro per la Sperimentazione Agricola e Forestale) - Leg. prof. Cavalcaselle - Examination of 22-XI-82: 6♀♀ dry (probably *E. solani* or *E. decipiens*).
- Typhl. 670 - LOMBARDY - (Cfr. Typhl. 672) - Rovescala (PV) - February-March 1984 - Leg. Prof. Domenichini - (Cfr. Typhl. 650) - 14-III-84 - H.P. bramble: 1♂ 2♀♀ dry.
- Typhl. 672 - LOMBARDY - (Idem like Typhl. 670 and 670 bis!) - Piacenza and surroundings (PV) - January-March 1984 - (Leg. Prof. Domenichini) - Rovescala (PV) - 14-III-84 - H.P. bramble: 1♂ 2♀♀ not prepared.
- Typhl. 683 - LIGURIA - Sanremo (IM) - (Mucci's farm) - m 150 - 19-VI-84 - H.P. *Parietaria officinalis*: 1♂ 2♀♀ not prepared.
- Typhl. 684 - LIGURIA - Apricale (IM) - m 300 - 19-VI-84 - H.P. *Brachypodium pinnatum*, *Bromus*, *Festuca* (in ulive grove along the road): 1♂ 1♀ dry.
- Typhl. 726 bis - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 9-VIII-83: 1♂.
- Typhl. 727 - LATIUM - Rome - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - H.P. *Eucalyptus* (nursery): 1♂ 2♀♀ (♂ pipunculized).
- Typhl. 746 - LOMBARDY - Rovescala (PV) - May-June 1984 - Material in alcohol - Leg. prof. Domenichini - San Rocco al Porto - 2-VII-84 - H.P. beet: 4♂♂ 6♀♀.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Rovasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Mount Manfrè (CT) - (Understorey of chestnut wood) - 5-VII-78: 1♂; 1-VIII-78: 1♂ 17♀♀; 5-VII / 29-VIII / 1-VIII / 5-VII-78: 5♂♂ 4♀♀ - Cava Carosello (CT) - 2-VII-79: 8♂♂.
- Typhl. 753 - SARDINIA - Homoptera collected with chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 12/19-VII-83: 1♂ 20♀♀.

- Typhl. 786 bis - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Arrobio) - h 10-10,30 - 21-VII-85 - H.P. *Vitis vinifera* (Barbera): 1♂ dry.
- Typhl. 796 - SICILY - Mt. Etna (CT) - Road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - (Pinewood *Pinus laricio* Poiret) - 1-VIII-85 - H.P. *Betula aetnensis*: specimens sparse, along gullies in the middle of the pinewood - ? (*alticola* n. ssp.): 3♂♂ 2♀♀ dry - **Drawing** - H.P. *Tanacetum siculum* (in the shade of *Pinus laricio*) - ? (*alticola* n. ssp.): 4♂♂ 6♀♀ dry.
- Typhl. 797 - SICILY - Mount Etna (CT) - (Silvestri Craters) - m 1,986 - (Reached from Zafferana) - 2-VIII-85 - H.P. *Achillea* (white, with depigmentations). Strong wind - No collecting - H.P. *Silene muscipula*, *Tanacetum siculum*, *Achillea moschata*, etc. - ? (*alticola* n. ssp.): 5♂♂ 5♀♀ dry.
- Typhl. 798 - SICILY - Siracusa - (River Ciane) - (Papyrus) - 2-VIII-85 - m 15 - H.P. *Sorghum vulgare* (with inflorescences, 5 cm) - *Zea mays* (with inflorescences, herbage) - basal leaves poorly depigmented: 1♂ 3♀♀ not prepared.
- Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano bianco) - Conversation with the peasant. Present of 6 melons - Windy - No symptoms: 1♂ 1♀ (dryinidized) dry.
- Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in vineyard - 14-VI-85: 2♂♂ 2♀♀ - 24-VII-85: 3♀♀.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected at Este (PD) on maize on 24-VII-86: 1♂ 1♀.
- Typhl. 908 - GREECE - Thessaloniki - Agias Trias - (Sun Beach Hotel) - 7-X-87 - H.P. *Portulaca oleracea* (in vineyard): 6♂♂ 10♀♀ dry - H.P. *Vitis* (treated with pesticides): 16♂♂ 12♀♀ dry. No nymphs. Phot. surroundings.
- Typhl. 910 - GREECE - Thessaloniki - Mihaniona (Fishermen village) - 10-X-87 - H.P. *Gossypium herbaceum*: 9♂♂ 4♀♀ dry + nymphs - *Chrysoperla carnea*: 2♀♀ dr Alma - H.P. *Vitis*: 1♂ 1♀ dry.
- Typhl. 912 - PORTUGAL - Amarante (Oporto) - (Park Boega Hotel) - 11-VI-88 - H.P. *Vitis labrusca* (on *Parietaria*, *Rubus* and *Sambucus*): 1♂ 1♀ (*Sambucus*) dry.
- Typhl. 914 - ABRUZZO - Prati di Tivo (TE) - Gran Sasso - m 1,500 - 17-VI-88 - H.P. *Acer* sp.: 1♂ - H.P. *Scrophularia* sp.: 1♂.
- Typhl. 920 - AOSTA VALLEY - Morgex (AO) - Lavancher - m 1,000 - 30-VI-88 - (Det. dr Alma) - H.P. *Solanum tuberosum* (near a vineyard): 1♂ 14♀♀.
- Typhl. 926 - PIEDMONT - Perosa Argentina (TO) - m 700 - 27-VII-88 - H.P. beet (bordering on grapevine): 5♂♂ 3♀♀ + juveniles not prepared.
- Typhl. 940 - PIEDMONT - Vezza d'Alba (CN) - 3-VIII-88 - H.P. grapevine (vineyards on a hill, near the village): 1♂ (probably coming from bean) not prepared - H.P. bean (near grapevines): 2♂♂ 2♀♀ (1♂ 1♀ dryinidized, 1♀ pipunculidized) not prepared.
- Typhl. 961 - EMILIA-ROMAGNA - Bologna - (Surroundings) - 26-XI-88 - (Faccioli legit) - H.P. bean: 11♂♂ 12♀♀ not prepared.

EMPOASCA kontkaneni Ossiannilsson, 1949

- Typhl. 132 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 10-VII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 153 and 189): 3♂♂ (1 dry, genitalia in preparation, 2 in alcohol), 9♀♀ (3 dry, 6 in alcohol) - Green colour like that of *E. pteridis* that turns to yellowish a little after the insect's death. Head, pronotum, and scutum with the usual small white spots typical of this group. Very constant the 2 round spots on the vertex (at least in the living insect). Phot. 4,145: ♀ dorsal; 4,146: tegmen and wing of a ♀.
- Typhl. 153 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 132 and 189): presence of few adults, in great majority ♂♂, and several juveniles of all instars (but the last 2 instar nymphs are prevailing). Therefore the 2nd generation is accomplishing in these days on hemp. This plant is approaching maturation and in 1-2 weeks time it will be mowed - Emerged from rearings of 4th and 5th instar nymphs: 13♂♂ (4 dry 9 in alcohol), 3♀♀ (2 dry 1 in alcohol) - 2 5th instar nymphs in alcohol.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Rubus fruticosus*: !! 2♂♂ (1 dry, 1 in alcohol) - (Cfr. Typhl. 132 and 153).
- Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - H.P. *Rubus fruticosus* - (Cfr. Typhl. 189): 6♂♂ (1 dry, 2 in alcohol, 3 in a plastic tube), 3♀♀ (1 in alcohol, 2 in a plastic tube) - (1♂ and 1♀ were collected on an *Ulmus campestris* plantlet).
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Rubus caesius*: 4♂♂ 3♀♀ dry + 5th instar nymphs!

EMPOASCA solani (Curtis, 1846)

- Typhl. 4 - PIEDMONT - Caluso (TO) - 16-X-55 - (Ditch between Plazio and Salvetti's properties) - H.P. *Mentha rotundifolia* (collected on a single shoot) - (as *pteridis*): 3 individuals, uniformly green, wings included - 1♀ dry - 1♂ 1♀ in alcohol.
- Typhl. 10 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Lycopus europaeus* - (as ?*pteridis*): 2♀♀ dry - Basically green - Probably of the same species found on *Mentha aquatica* (see Typhl. 4).
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of headings of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Tullgreni* Ribaut - ?*pteridis* Dahlbom): 1♂ dry, 4♂♂ 4♀♀ in alcohol.
- Typhl. 52 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 14-X-56 - H.P. *Vitis vinifera* - (as *Tullgreni*): 1♂ dry - 1♂ dryinidized, 2♀♀ in alcohol - (Cfr. Typhl. 46).
- Typhl. 53 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 18-X-56 - H.P. *Populus euro-americana* - (as *Tullgreni*) - 27 individuals of which: 9♂♂ (3 dry, 6 in alcohol) 18♀♀ (3 dry, 15 in alcohol) - Abundance of adults, still feeding on poplar and on nearby *Asparagus* - No individuals parasitized by dryinids.
- Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Salix caprea* - (as *Tullgreni*) - 10 individuals of which: 5♂♂ (2 dry, 3 in alcohol) 5♀♀ (2 dry, 3 in alcohol) - H.P. *Quercus* sp. - (as *Tullgreni*): 1♂ 3♀♀ dry.

- Typhl. 55 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Lycopus europaeus* - (as *Tullgreni*) - ! 17 individuals of which: 4♂♂ (1 dry, 3 in alcohol) 13♀♀ (2 dry, 11 in alcohol).
- Typhl. 56 - PIEDMONT - Ternavasso (TO) - (Near the lake) - Humid environment - 18-X-56 - H.P. *Carex cespitosa*, wild Gramineae, *Potentilla* sp. - (as *Tullgreni*! Ribaut): 12 individuals of which: 5♂♂ (1 dry, 4 in alcohol) 7♀♀ (2 dry, 5 in alcohol).
- Typhl. 58 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 20-X-56 - H.P. *Brassica rapa* - (as *Tullgreni*) - 8 individuals of which: 4♂♂ (1 dry, 3 in alcohol) 4♀♀ (1 dry, 3 in alcohol).
- Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* (also on fodder Gramineae) - (as *Tullgreni* Ribaut): 4♂♂ 8♀♀ in alcohol.
- Typhl. 64 - PIEDMONT - Caluso (TO) - (Hedge of the headings of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as ?*Tullgreni* Ribaut): 3♀♀ dry - (Cfr. Typhl. 47!).
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris*: 9 individuals of which 1♂ dry and 8♀♀ (2 dry).
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. privet (Picco's hedge) - (as *Tullgreni*): 15 individuals, of which 2♂♂ 13♀♀ not prepared.
- Typhl. 75 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's field) - 3-III-57 - H.P. *Triticum vulgare* - A great number of ♂♂ and ♀♀ (found active during the surveys made in nice days of January and February). I collect 10 of them, of which 3♂♂ (1 parasitized by dryinids) and 7♀♀ (6! parasitized by dryinids). The 10 individuals are preserved in alcohol.
- Typhl. 78 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's field) - 30-III-57 - H.P. *Triticum vulgare* and *Secale cereale* - (as *Tullgreni*, correct *pteridis*) - Great amount of ♂♂ and ♀♀. Plenty individuals (over 50% are parasitized by dryinids) - 1-IV-57: 2♂♂ and 1♀ parasitized in alcohol - 10-V-57: ♂♂ and ♀♀ are reared on wheat - 15-IV-57 - The 10 parasitized individuals died before that the dryinid larvae abandoned them. 4♂♂ and ♀♀ with their parasites are put in alcohol, 6 are reared - In Caluso in the inspected field the *Empoasca Tullgreni* adults are now very few (instead those of *E. decipiens* on *Potentilla* are still many in the arboretum of the Institute, see Typhl. 81) - 26-IV-57 - Several ovipositions made in wheat sheaths and leaves starting from 7-8 April - No ♀♀ alive anymore - 29-IV-57 - First neanids hatched - Prepared newly born neanids and eggs.
- Typhl. 87 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's field) - 5-V-57 - H.P. *Triticum vulgare* - (as *Tullgreni*): 1♀.
- Typhl. 97 - PIEDMONT - Bussoleno-S. Giorio (TO) - 23-V-57 - H.P. ?*Satureja vulgaris* - (as *Tullgreni* correct *pteridis*): 1♂ dry - The appendix of the pygofer lobe has however a very long and pointed tooth. Also the processes of the anal collar are very elongated - **Drawings**.
- Typhl. 101 - PIEDMONT - Caluso (TO) - 24-V-57 - H.P. potato (Vidano's field) - (as *Tullgreni*): 2♂♂ 10♀♀ not prepared.

- Typhl. 106 - PIEDMONT - Ulzio (TO) - 31-V-57 - H.P. *Salvia pratensis* (meadow) - (as *Tullgreni*): 1♂ 4♀ ♀ dry.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - (Gargano) - Near the Convent - m 600 - 5-VI-57 - H.P. wheat - (as ?*Tullgreni*): 2♀ ♀ dry - No ♂♂.
- Typhl. 112 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-VI-57 - H.P. wild Gramineae (headings), hedges - (as *Tullgreni*): 1♂ dry.
- Typhl. 113 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 18-VI-57 - H.P. *Cannabis sativa* - (as *Tullgreni*): 1♂ dry.
- Typhl. 114 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 21-VI-57 - (as *pteridis* Dahlbom) - H.P. *Cannabis sativa* - (*Tullgreni* Ribaut): 3♂♂ (2 dry), 1♀ dry (1♂ parasitized by *Aphelopus*) - H.P. *Mentha piperita* - (as *Empoasca* near to *pteridis* Ribaut): 1♂ 1♀ dry (as that of Typhl. 97).
- Typhl. 125 - PIEDMONT - Exilles-Salabertano (TO) - m 1,000 - 5-VII-57 - H.P. potato - (as *pteridis*): 1♂ dry, 5♀ ♀ (2 dry).
- Typhl. 149 - APULIA - Chiatona (TA) - 23-VII-57 - H.P. orange tree - ! (as *pteridis* Dahlbom) (*Tullgreni* Ribaut = *flavescens* Paoli): 1♂ 2♀ ♀ dry - The three individuals have the second apical cell of the tegmina longly petiolate.
- Typhl. 150 - PIEDMONT - Caluso (TO) - (Vidano's home) - 28-VII-57 - H.P. fodder beet. *Beta costa* - (as *pteridis* Dahlbom): 12♂♂ (2 dry, 10 in alcohol), 7♀ ♀ (2 dry, 5 in alcohol) - phot. 4,245: 2 eggs in a beet leaf; eggs in alcohol - H.P. potato - (as *pteridis*): 2♂♂ 1♀ in alcohol.
- Typhl. 152 - PIEDMONT - Bruschi (TO) - (Cantoira) - (Forno Alpi Graie Valley) - 1-VI-II-57 - H.P. potato - (as *pteridis*): 1♂ dry - With the 2 external apical cells of the tegmina petiolate - H.P. *Cannabis sativa* (close to harvest): 1♂ dry (presence of ♂♂ ♀♀ adults + juveniles).
- Typhl. 159 - PIEDMONT - Exilles-Salabertano (TO) - 6-VIII-57 - H.P. *Vicia faba* - (as *pteridis*): 1♂ dry - Species scarcely present in this crop.
- Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - (Halfway of the crossroad Deiva-Levanto) - 17-VIII-57 - H.P. *Pteris aquilina* - (as *pteridis*): ! 1♂ dry.
- Typhl. 176 - CAMPANIA - S. Maria Capua Vetere (CE) - 3-IX-57 - H.P. *Solanum nigrum* - (as *pteridis*): 3♂♂ 6♀ ♀. Mixture of adults of both above mentioned species (*E. decipiens*, editor's note) not prepared.
- Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Artemisia vulgaris* - (as *pteridis*): 6♂♂ 3♀ ♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *pteridis*) - H.P. *Salix alba*: 1♂ not prepared - H.P. *Acer campestre* (plant present as isolated shrubs in the coppice wood and in the hedges - Leaves characteristically depigmented): 1♂ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Corylus avellana* - (as *pteridis*): 2♂♂ not prepared - One of which with the teeth of the styli having an unusual shape.

- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Alnus glutinosa* (hedge with the canopy of one year of age close to *Zea mays* and *Phaseolus vulgaris*) - (as *pteridis*): 9♂♂ 8♀♀ not prepared - Coming very probably from nearby herbaceous crops.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. *Artemisia campestris* - (as *pteridis*): 9♂♂ 7♀♀ not prepared.
- Typhl. 197 - PIEDMONT - (Cfr. Typhl. 270) - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - H.P. *Salix alba*, *S. purpurea* - (as *pteridis*): 1♂ not prepared.
- Typhl. 198 - PIEDMONT - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - H.P. *Tanacetum vulgare* - (as *pteridis*): 2♂♂ 2♀♀ not prepared.
- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - (as *pteridis*) - H.P. *Achillea millefolium* (rather arid environment): 1♂ 1♀ not prepared - H.P. *Quercus pedunculata* (small shrubs): 1♂ 1♀ not prepared.
- Typhl. 200 - PIEDMONT - Barone Canavese (TO) - (Humid ditch along Bianco Pietro's field) - 28-IX-57 - (as *pteridis*) - H.P. *Zea mays*: presence of plenty adults - (I collected 18♂♂ 26♀♀): 1♂ 1♀ dry - H.P. wild Gramineae: ♂♂ ♀♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-San Giorio (TO) - (Dora Riparia Valley) - (wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Artemisia campestris* - (as *pteridis*): 1♂ not prepared.
- Typhl. 230 - PIEDMONT - Caluso (TO) - (Tululena's field) - 2-II-58 - H.P. *Rubus fruticosus* (the individuals of the different species were kept until 26-II-57 in a glass tube containing green bramble leaves. At the moment of the examination they were still all alive) - (as *pteridis*): 1♂ 3♀♀ not prepared.
- Typhl. 234 - PIEDMONT - Caluso (TO) - 19-V-58 - H.P. *Solanum tuberosum* - (as *pteridis*): 1♂ dry.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. hemp - (as *pteridis*): 10♂♂ 9♀♀.
- Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Solanum melongena* (depigmented leaves) - (as *pteridis*): 2♂♂ 2♀♀ not prepared.
- Typhl. 259 - PIEDMONT - Nizza Monferrato (AT) - (road to Alessandria, 2-3 Km from the city) - 31-VII-58 - H.P. *Chaerophyllum* sp. (umbellifer-depigmented) - (as *pteridis*): 10♂♂ 40♀♀ not prepared.
- Typhl. 261 - LOMBARDY - Goito (MN) - (Sacca's anonymous estate agency and a manager - the farm Favulli Cesare - farm managed by Boffi) - 6-VIII-58 - H.P. *Vigna sinensis* - (as *pteridis*): presence of a great number of adults (from 2-3 to 8-10 per plant) mostly ♀♀ (ratio between ♂♂: ♀♀ 1:6) - There are also juvenile stages of all instars, but in low numbers (probably due to treatments with phosphate esters made 15/30 days before): 3♂♂ 3♀♀ dry. Appendages of the pygofer lobe **drawn**. In the area of Goito *Vigna sinensis* is a high-income catch crop; it is generally sown after harvesting wheat (end June); more rarely it follows other crops (e.g. peas, May's hay). It is cultivated alone to produce seed, together with maize to produce fresh fodder (herbage). Until now the farmers of Goito did not have any damage by virus diseases in *V. sinensis*. Suddenly towards mid July of last year all *V. sinensis* crops (more considerably those following wheat, that represent actually the great major-

ity) show a worrying wilting. Immediately aphids were accused (colonies of black aphids, probably *Aphis*...) against which (but not in all plots) treatments of phosphate esters were made (Pestox, etc.); the aphids disappeared both from treated and untreated plants. Presently there are no more traces of aphids, but the health conditions of the legume did not improve in any of the several plots, on the contrary, everywhere the bad initial symptoms increased, concerning the general state of the plants and in particular of the leaves. The latter in diseased plants are poorly developed, with an irregular shape, twisted, bullate, crumpled, irregularly spotted with yellow. The stalk, that is regularly voluble, remains small; flowering is poor, the pods remain atrophic and tend to bend. In a word it is a general deperishment of the plant due to one or more virus diseases. Current symptoms seem referable to yellows (Aster yellows...). In a plot where sowing occurred towards mid May, after growing *Pisum sativum*, *V. sinensis* is less affected than elsewhere; it flowered regularly and produced many pods; however it shows obvious alterations too, above all in the younger leaves and in growing pods. Apparently healthy plants, even luxuriant with the voluble stem are present in some mixed herbage (*Vigna* and maize) grown on the border of the polluted area. Even among the infected crops one can find, but very rarely, single healthy plants. Concerning sowing, in a great majority the different farmers of this area used, like in previous years, seed produced in their farm. In the plots where seed coming from elsewhere was used, the *Vigna* crops did not have a better issue. Presently this legume, except isolated cases, does not show any alterations different from those due to the virus disease. Concerning insect pests, the most common species is *Empoasca pteridis* [among typhlocybrids a great number of !!*Zyginidia* (*Erythroneura*) *pullula* is present too: 2♂♂ 3♀♀ - dry, but it does not live on *Vigna* yet on the barnyard grass]. A great number of adults of *Cicadella viridis* and *Aphrophora alni* are present too, above all near ditches and hedges with trees, respectively. Some sunnier and arid plots of *V. sinensis* were also infested by the red mite ...(in this case the leaves involved showed the upper page decolourated, with yellowish patches more or less extended on the lower page, where there are the tiny acari and their eggs above all close to veins with ferrugineous spots. This mite develops very well also on leaf stalks and precisely in their groove) - phot. 6,323-6,327: particular viroses; 6,328-6,330: tetranychid mite (3 tubes in alcohol) - !!!Experiments to transmit the virosis by means of *Empoasca pteridis* - (Cfr. Typhl. 262) - H.P. *Lycopersicon esculentum*, *Beta vulgaris* (sugar beet), melon - (as *pteridis*): presence of several adults (♂♂:♀♀ ratio = 1:6) but not many like on *Vigna sinensis* - not prepared.

Typhl. 262 - PIEDMONT - Turin - Mirafiori - (Centro Meccanico Agricolo) - 9-VIII-58 - H.P. *Vigna sinensis* (as herbage; plants not yet in anthesis, cm 30-35 tall; isolated plants and plants together with maize): presence of several adults (ratio between ♂♂:♀♀ = 1:4) and juvenile stages. In alcohol 3♂♂ 3♀♀ (phot. 6,365-6,366) and 1 mature nymph (phot. 6,367) - **Drawing** of style of pygofer lobes. Rearings (cfr. Typhl. 261) - Rearing no. 1: 9-VIII-58 - h 18 - *Empoasca pteridis* from Goito 24 adults (4♂♂ 20♀♀) remained until now on *Vigna sinensis* affected by virosis from Goito are placed on potted healthy *Vigna sinensis* plants (coming from Mi-

rafiori) to check the possible transmission of the virus disease - 14-VIII-58: the *E. pteridis* adults are discarded from the rearing (there are 20 active ♀ ♀, while the 4♂ ♂ are missing, because dead) - Rearing no. 2: 9-VIII-58 - h 18 - *E. pteridis* from Mirafiori: 24 adults (6♂ ♂ 18 ♀ ♀), put on *Vigna* plantlets (coming from Mirafiori) in pots to check possible alterations due only to the insect's piercings. Rearing no. 3: tetranychid mite (cfr. Typhl. 261) - Leaf stalk of virus diseased *Vigna sinensis* from Goito in the groove of which many mites of all instars grouped, placed on healthy *Vigna* plantlets coming from Mirafiori (in pots) to check the possible transmission of the virosis, or direct damage caused by the mite.

Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - (as *pteridis*) - H.P. *Phaseolus* (some plants appear with virosis): 1♂ 3 ♀ ♀ not prepared - H.P. *Beta vulgaris* (fodder plant): 2♂ ♂ 10 ♀ ♀ dry.

Typhl. 271 - PIEDMONT - Stupinigi (TO) - (Bridge on the Sangone stream) - 8-X-58 - H.P. *Salix purpurea* - (as *pteridis*): 3♂ ♂ 13 ♀ ♀ in a plastic tube. **Drawing.** (Cfr. Typhl. 197).

Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Mentha longifolia* - (as *pteridis*): 2♂ ♂ 1 ♀.

Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - (Rhêmes Valley) - 13-IX-59 - Social dam of Cogne, near Tache and Buillet - m 1,000 ~ - H.P. *Festuca arundinacea* - (as *pteridis*): 2♂ ♂ 3 ♀ ♀ not prepared (as that of Typhl. 271).

Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - m 1,028 - H.P. *Solanum tuberosum* - (as *pteridis*): ♂ ♂ ♀ ♀ not prepared - (Many specimens parasitized by *Aphelopus*).

Typhl. 305 - PIEDMONT - Lanzo (TO) - (road to Corio, near the crossroad to Coassolo) - 31-V-61 - H.P. *Solanum tuberosum* - (as *pteridis*): presence of many ♀ ♀ not prepared.

Typhl. 314 - CALABRIA - Crotone - (Ente Riforma farm) - 8-VII-61 - H.P. *Capsicum annuum*, *Lycopersicon esculentum*, *Solanum melongena* - (as *pteridis*): ! 1♂ (on egg plant) not prepared.

Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - (as *pteridis*) - H.P. various herbaceous plants (low, around stagnant water), *Cardamine flexuosa*: 3♂ ♂ dry - H.P. *Salix cinerea*: 2♂ ♂ 3 ♀ ♀, 3 nymphs not prepared.

Typhl. 323 - SARDINIA - Fertilia (SS) - 10-VIII-61 - H.P. *Medicago sativa* - (as *pteridis*): 1♂ dry - Many adults of the three species (*pteridis*, *decedens*, *alsiosa*, editor's note) mixed.

Typhl. 328 - SARDINIA - Quartu S. Elena (CA) - (Along the road to Muravera) - 12-VI-II-61 - H.P. *Solanum lycopersicon* - (as *pteridis*): ♂ ♂ ♀ ♀ not prepared (length 3-3.5 mm!) - (Cfr. Typhl. 371).

Typhl. 329 - SARDINIA - Oristano - (Wasteland, 6 Km from the town, on the right of the road to Cagliari) - 13-VIII-61 - H.P. *Xanthium strumarium* - (as *pteridis*): 10♂ ♂ 8 ♀ ♀ in a plastic tube.

Typhl. 330 - SARDINIA - Arborea (OR) - (Drainage district) - 13-VIII-1961 - (as *pteridis*) - H.P. *Trifolium repens* (irrigated meadow): !! 3♂ ♂ 10 ♀ ♀ not prepared - H.P. *Zea mays* (American hybrid): ! 7♂ ♂ 5 ♀ ♀ not prepared.

- Typhl. 331 - SARDINIA - Arborea (OR) - (Vegetable gardens near the canal of the drainage district) - 13-VIII-61 - H.P. celery - (as *pteridis*): ♂ ♂ ♀ ♀ (many specimens dry) - In these vegetable gardens celery is the mostly infested plant by *E. pteridis*, currently present in all developmental stages (♂ ♂: ♀ ♀ ratio 1:1) - Decolouring, or better yellowing of the leaves, rather than patchy depigmentation - H.P. *Solanum melongena*, *S. lycopersicon*, *S. tuberosum* - Very infested plants, but not so much as celery: ♂ ♂ ♀ ♀ not prepared - H.P. *Ligustrum ovalifolium* (garden hedge): presence of only adults, ♂ ♂ ♀ ♀ not prepared - H.P. *Prunus persica*: ♂ ♂ ♀ ♀ (coming from nearby herbaceous crops?).
- Typhl. 332 - SARDINIA - Arborea (OR) - (Thicket near the vegetable gardens close to the canal of the drainage district) - 13-VIII-61 - (as *pteridis*) - H.P. *Populus alba*: 4♂ ♂ 3♀ ♀ (coming from the nearby gardens?) - Oristano, beyond the Tirso, near the sea - 13-VIII-61 - H.P. *Oryza sativa*: 2♂ ♂ 5♀ ♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with shrubs of various broadleaves, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Beta vulgaris* - (as *pteridis*): !! 3♂ ♂ 6♀ ♀ not prepared.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - (as *pteridis*) - H.P. *Rhamnus frangula*: 2♂ ♂ not prepared.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste - Noghera - (Old saltworks between Trieste and Muggia) - Day of strong Bora wind! - 3-X-61 - !H.P. *Artemisia annua*! - (as *pteridis*): 2♂ ♂ not prepared.
- Typhl. 370 - SARDINIA - Quartu S. Elena (CA) - 18-X-61 - H.P. !!!*Solanum sodomium* (Spiny solanacea) - (as *pteridis*): 1♀ dry - Length mm 3.3 - H.P. *Vitis vinifera*: 1♂ 1♀ not prepared.
- Typhl. 371 - SARDINIA - Cagliari - S. Gregorio-S. Priamo - 18-X-61 - (as *pteridis*) - H.P. *Lycopersicon esculentum*: 4♂ ♂ 13♀ ♀ dry - H.P. apricot (canopy still very thick): 1♀ not prepared.
- Typhl. 372 - SARDINIA - Cagliari - Muravera - 18-X-61 - (as *pteridis*) - H.P. *Satureja calamintha* v *glandulosa*: 1♂ 1♀ not prepared - H.P. *Satureja calamintha* v *nepeata*: 1♀ dry - H.P. *Solanum sodomium*: 8♂ ♂ 3♀ ♀.
- Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - (as *pteridis*) - H.P. *Cynara scolymus* (artichoke): 3♂ ♂ 5♀ ♀ dry - H.P. *Citrus aurantium*: 2♂ ♂ 2♀ ♀ dry - H.P. *Solanum melongena*: 5♂ ♂ 3♀ ♀ not prepared.
- Typhl. 375 - SARDINIA - Cagliari - (La Maddalena) - 19-X-61 - (as *pteridis*) - H.P. *Cap-sicum annum*: 2♂ ♂ 4♀ ♀ not prepared - H.P. *Solanum tuberosum*: ♂ ♂ ♀ ♀ not prepared - H.P. *Citrus aurantium*: 2♂ ♂ 1♀ not prepared.
- Typhl. 376 - SARDINIA - Iglesias (CI) - Drainage of Low Sulcis - S. Giovanni Suergiu - 19-X-61 - (as *pteridis*) - H.P. *Echinochloa crus-galli*: 1♂ 2♀ ♀ - Cagliari - (Iglesias) - On the right of the road to Domusnovas - H.P. *Vitis vinifera* (plants not attacked by *E. lybica*): 2♂ ♂ 1♀ not prepared.
- Typhl. 377 - SARDINIA - Cagliari - Iglesias - (Halfway between Iglesias and Domusnovas) - 19-X-61 - (as *pteridis*) - H.P. *Chrysanthemum ?leucanthemum*: 6♂ ♂ 3♀ ♀ dry - H.P. *Satureja calamintha* and *Lycopus europaeus*: 2♀ ♀ not prepared - H.P.

Salix triandra: 1 ♀ not prepared.

Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Buxus sempervirens* - (as *pteridis*): 3 ♀ ♀ not prepared.

Typhl. 413 - SARDINIA - Tottubella di Rumanedda (SS) - m 531 - 16-VIII-62 - (as *pteridis*) - H.P. *Beta vulgaris* (sugar beet): 1 ♂ 5 ♀ ♀ dry - H.P. *Phaseolus vulgaris*: ♂ ♂ ♀ ♀ not prepared - H.P. *Cucurbita pepo*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 422 bis - LIGURIA - Mortola (IM) - (Curve before Ponte S. Luigi) - 15-IX-62 - H.P. *Rosmarinus officinalis* (wild!!) - (!!as *pteridis*): ♂ ♂ ♀ ♀ dry - Adults of an intense green colour, like in certain *Chlorita* species.

Typhl. 422 ter - LIGURIA - Mortola (IM) - (Villa Hambury) - 15-IX-62 - H.P. *Rosmarinus officinalis* - (as *pteridis*): 7 ♂ ♂ 7 ♀ ♀ dry. Individuals of an intense green colour.

Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Panicum crus-galli* (in a vineyard, in a cool zone) - (as *pteridis*): 1 ♂ 2 ♀ ♀ not prepared.

Typhl. 442 - SARDINIA - San Gregorio (CA) - 7-X-62 - H.P. *Solanum lycopersicon* - (as *pteridis*): ♂ ♂ ♀ ♀ not prepared.

Typhl. 450 - SARDINIA - Sestu (CA) - 27/30-XII-62 - (Leg. dr Melis, in vegetable gardens) - H.P. lettuce, parsley - (as *pteridis*): 8 ♂ ♂ 16 ♀ ♀ + eggs in lettuce veins.

Typhl. 467 - SARDINIA - Villasimius (CA) - (m 50) - 24-VIII-63 - H.P. *Lycopersicon esculentum* - (as *pteridis*): 1 ♀ dry.

Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Quercus sessiliflora* (low part of the canopy of big trees) - (as *pteridis*): 2 ♂ ♂ 3 ♀ ♀ dry - Present in a nearby alfalfa field.

Typhl. 494 - Homoptera Auchenorrhyncha - Dr I. Harpaz: letter 15-VII-63 - Morsella (PV) - 10-VIII-62 - H.P. maize - (as *pteridis*): 1 ♀ (parasitized by a dryinid).

Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse shrubs of *Rosa* (?*canina*) and *Sambucus ebulus* - (as *pteridis*) - H.P. *Urtica dioica* (under *Rosa montana*): 1 ♂ 1 ♀ dry - H.P. *Sambucus ebulus*: 6 ♂ ♂ 2 ♀ ♀ dry.

Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - (as *pteridis*) - H.P. *Quercus pubescens* and *Q. aegylops*: 1 ♂ 2 ♀ ♀ dry - *Carpinus betulus*: 1 ♂ 3 ♀ ♀ not prepared - H.P. *Helianthemum vulgare*, *Teucrium chamaedrys*, *Potentilla* sp. (under *Corylus* and *Carpinus*): ♂ ♂ ♀ ♀ not prepared.

Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2,200 approx. - (near the hotel) - 16-VIII-64 - H.P. *Taraxacum officinale* v *laevigatum*, *Cirsium afrum* v *niveum* - (as *pteridis*): 1 ♂ 2 ♀ ♀ dry.

Typhl. 513 - ABRUZZO - Assergi (AQ) - 16-VIII-64 - H.P. *Santolina chamaecyparissus* (flower bed in the square of the cableway to Campo Imperatore) - (as *pteridis*): 2 ♂ ♂ 2 ♀ ♀ dry (adults reared from nymphs!!!).

Typhl. 516 - TUSCANY - Abetone (PT) - m 1,400 - 18-VIII-64 - (Emilian slope, arid slope) - (as *pteridis*) - H.P. *Alnus incana* v *typica*: 1 ♂ dry - H.P. *Hieracium muro-rum*: ? 4 ♀ ♀ dry.

- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - (as *pteridis*) - H.P. *Lamium garganicum*, *Urtica dioica* (luxuriant vegetation, waste water drain of the hotel): ♂♂ ♀♀ dry - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens*: ♂♂ ♀♀ not prepared.
- Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate station of the cableway to Campo Imperatore) - m 1,600 ~ - 27-VIII-64 - (as *pteridis*) - H.P. *Teucrium montanum* (among Gramineae and *Carex*) - (No parasitized specimens!): 2♂♂ 3♀♀ dry - H.P. *Solanum tuberosum* (small plot, in a reforestation zone, at m 1,600! approx.) - (Several ♀♀ and few ♂♂): 1♂ 2♀♀ dry.
- Typhl. 523 - JUGOSLAVIJA - Split - (Slope of Otišić) - m 800-1,000 - 3-IX-64 - H.P. *Solanum tuberosum* (in "Dolina": m 1,000) - (as *pteridis*): ♂♂ ♀♀ not prepared. Both species (*E. decipiens*, editor's note) very parasitized by *Aphelopus*.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) m 500 - 3-IX-64 - H.P. *Thymus serpyllum* v *chamaedrys* - (as *pteridis*): 1♂ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - beginning of slope N-E of Dinara Planina - Dolinas, etc. - H.P. *Sambucus ebulus* (as *pteridis*): 1♂ 1♀ dry.
- Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj m 900) - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation, *Fagus*, *Corylus*, *Acer Pseudoplatanus*, *Fraxinus*, *Orius*, etc. - beginning of slope N-E of Dinara Planina - Dolinas etc. - (Very sunny karstic zone, with low *Quercus* shrubs - 2-3 Km downstream of Vaganj, towards Sinj) - (as *pteridis*) - H.P. *Quercus cerris* and *Q. pubescens* (shrubs): 1♂ not prepared.
- Typhl. 527 - JUGOSLAVIJA - Obrovac - (On the road Sjni-Livno, along the river Cetina) - 4-IX-64 - (as *pteridis*) - H.P. *Phaseolus vulgaris*: many ♂♂ ♀♀ not prepared - H.P. *Nicotiana tabacum*: few ♂♂ ♀♀ not prepared.
- Typhl. 528 bis - JUGOSLAVIJA - Montenegro - Lovćen - m 1,300 - (Locality near Njeguši, on the road Kotor-Cetinje) - 7-IX-64 - H.P. *Zea mays* (as *pteridis*): 1♂ 2♀♀ dry (many specimens parasitized by *Aphelopus*).
- Typhl. 539 - PIEDMONT - Vinadio (CN) - m 950 ~ - 29-X-64 - H.P. *Artemisia absinthium* - (as *pteridis*): ? 1♀ not prepared.
- Typhl. 566 - JUGOSLAVIJA - Kutina (Hrvatska, 70 Km from Zagreb) - Locality 12-15 Km from Kutina at a height of m 250 approx. Along villages and country roads. Very humid environment - 1-IX-66 - H.P. *Solanum tuberosum* - (as *pteridis*): 2♂♂ dry.
- Typhl. 569 - PIEDMONT - Colle del Moncenisio (TO) - m 2,084 - 21-IX-66 - Karstic zone, with foibas and small dolinas, between the road and the lake - H.P. *Achillea* sp. - (as *pteridis*): 1♂ 1♀ dry.
- Typhl. 574 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - Along the stream Dora Riparia - 16-V-68 - (as *pteridis*) - H.P. *Medicago sativa*: ♂♂ ♀♀ not prepared.
- Typhl. 591 - PIEDMONT - Carignano (TO) - 23-VIII-80 - H.P. *Zea mays*: 2♂♂ 1♀ dry - No specimens of *E. solani* attacked by entomophthoracea.

- Typhl. 594 - PIEDMONT - Roddino (CN) - m 610 - 31-VIII-80 - H.P. *Zea mays*: 3♂♂ 3♀♀ not prepared.
- Typhl. 622 - PIEDMONT - Salabertano (TO) - m 1,000 - 21-VIII-81 - (Windy day) - H.P. *Solanum tuberosum*: 1♂ dry, 3♀♀ not prepared.
- Typhl. 625 - PIEDMONT - Noasca-Ceresole Reale (TO) - m 1,400 - 23-VIII-81 - H.P. *Solanum tuberosum* (locality frequented by the nomadist beekeeper Ferrero from Cavignolo): 1♂ 1♀ dry. Common but not abundant.
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Fraxinus excelsior* (coppice suckers): 1♂ dry.
- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Juniperus* sp.: ? 1♀ dry.
- Typhl. 650 - LOMBARDY - Rovescala (PV) - 9 June - 21 September 1982 - (Leg. prof. Domenichini) - Ferretti (PV) - H.P. grapevine: ♂♂ ♀♀.
- Typhl. 651 - LATIUM - 4-XI-82 - H.P. poplar (nursery of the Centro per la Sperimentazione Agricola e Forestale) - Leg. prof. Cavalcaselle - Examination of 22-XI-82: 6♀♀ dry (probably *E. solani* or *E. decipiens*).
- Typhl. 668 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza) (VE) - 10-XI-83 - H.P. *Hordeum vulgare* (12-18 cm) - 30-80 specimens/m²: ? 1♀.
- Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 10-XI-83 - H.P. *Hordeum vulgare*: 2♂♂ - "Boscata" farm Piva - 24-X-83 - H.P. *Triticum vulgare* (many specimens collected underground, among the clods): 1♂ 8♀♀.
- Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 3♀♀ dry-nidized.
- Typhl. 681 - PIEDMONT - Pavone Canavese (TO) - 17-VI-84 - H.P. *Zea mays* (35-40 cm tall, with 6-7 leaves): 1♂ and 1♀ not prepared - (coming from *Amaranthus*?).
- Typhl. 688 - PIEDMONT - Casale Monferrato (AL) - 24-VI-84 - H.P. *Zea mays*: 1♂ dry.
- Typhl. 690 - PIEDMONT - Carignano (TO) - (Experimental Field of the Istituto Scienze Coltivazioni) - 28-VI-84 - H.P. *Zea mays*: 3♂♂ 1♀ reared by dr Arnò. Presence of *Macrosteles sexnotatus* (3♂♂ 1♀ not prepared) and *Sitobium avenae*. Small colonies on leaves altered distally (wavy, with a pruinosity on the lower leafpage). Winged ♀♀ attacked by entomoparasitic fungi and by *Aphidium*. Similar situation in nearby fields of *Triticum vulgare* (ripening) - H.P. *Beta costa*: 5♂♂ 2♀♀ reared by dr Arnò.
- Typhl. 695 - PIEDMONT - Poirino (TO) - 8-VII-84 - H.P. *Zea mays*: 2♂♂ not prepared.
- Typhl. 695 bis - PIEDMONT - Quattordio (AL) - 8-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 678, 686, 707): 2♂♂ 2♀♀ not prepared.
- Typhl. 707 - PIEDMONT - Quattordio (AL) - 22-VII-84 - H.P. *Zea mays*: 2♀♀ not prepared.
- Typhl. 711 - PIEDMONT - Carignano (TO) - 2-VIII-84 - (Experimental Centre of the Istituto Scienze Coltivazioni) - H.P. *Zea mays* - (Cfr. Typhl. 690) - Plant with the male inflorescence just opened (16th-17th real leaf - 14th-15th apparent leaf and ear in development or just developed - 10th-11th real leaf, 8th-9th apparent one): 2nd ear? 1♂ 6♀♀.

- Typhl. 714 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. soya bean: 1♂ 1♀ dry (2♂♂ 3♀♀ not prepared) - H.P. *Solanum tuberosum*: 1♂ 1♀ dry (2♂♂ 9♀♀ not prepared).
- Typhl. 715 - PIEDMONT - Predosa (AL) - (Three written sheets) - 5-VIII-84 - H.P. *Zea mays* (in a woody area, in a maize field, among vineyards, wheat stubble and woods - Cfr. Typhl. 671): 2♂♂ 1♀ not prepared.
- Typhl. 728 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 15-IX-84 - H.P. *Zea mays* - (Cfr. Typhl. 712 and 732) - Spring sowing delayed, plants still very luxuriant, without aphids, abundance of *T. urticae* and relative natural enemies - *Stethorus punctillum*, larvae and pupae; anthocorids, nymphs and adults; coniopterygids, cocoons with pupae; spiders - 7♂♂ 22♀♀ not prepared.
- Typhl. 732 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 20-IX-84 - H.P. *Zea mays*: 2♂♂ 4♀♀ not prepared - (Cfr. Typhl. 728).
- Typhl. 733 - PIEDMONT - Carignano-La Loggia (TO) - 20-IX-84 - H.P. *Zea mays* (herbage with plants 30-35 cm tall) - 5-6 leaves - Leaves with first depigmentations: 1♂ 1♀ not prepared.
- Typhl. 734 - PIEDMONT - Predosa (AL) - 23-IX-84 - H.P. *Zea mays* (Farm Mussa): 6♂♂ 10♀♀.
- Typhl. 741 - PIEDMONT - Predosa (AL) - 7-X-84 - (Cascina nuova - Sowing) - H.P. *Zea mays* - Plants still very green, with 2 or 3 basal leaves (apparent) still green in part. H 11, muddy ground of the field, but good vegetation for observations: apical leaves (last 3-5) with a lot of dew (or condensation) on the lower page and so not visited by leafhoppers. Possible use of the sweepnet on the vegetation up to m 1.70. I collected with two sweeps: 10♀♀ - (Cfr. Typhl. 734).
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. *Zea mays*: 3♂♂ 9♀♀ dry - H.P. plots of *Dactylis glomerata* and *Trifolium repens*: 3♀♀ - H.P. heading with Gramineae and dicots bordering on the maize field: 7♂♂ 4♀♀ - H.P. *Zea mays* (herbage between Carignano and La Loggia): 19♂♂ 18♀♀ - H.P. plot of *Trifolium pratense*: 3♀♀.
- Typhl. 744 - PIEDMONT - Piossasco (TO) - (Towards Stupinigi) - 14-X-84 - h 11 - I collected on Gramineae near the pylon (*Agropyron*, *Panicum*, *Setaria*) besides on maize: 1♂ 2♀♀.
- Typhl. 745 - PIEDMONT - Orbassano (TO) - (Bypass) - 14-X-84 - H.P. *Zea mays* herbage 40 cm tall (plants with 6-7 leaves, rather yellowish): 2♂♂ not prepared - H.P. *Zea mays* - Plants with 10 leaves (m 1-1.10 tall) - 2nd sowing very strong but too late (far from earing). Very attractive for *Zyginidia pullula* and *Empoasca solani*. Other Auchenorrhyncha missing. Leaves depigmented only by adults. Eggs and juveniles missing - Collected material: 1st glass tube: 5♂♂ 6♀♀. 2nd glass tube: 9♂♂ 1♀ - H.P. *Zea mays*, 2nd sowing just after flowering. Strong, with very green leaves, even the basal ones. Plants with 13-15 leaves. Ear near 7-9 leaves. Very depigmented leaves. At the borders presence of few adults and no juveniles. (In the middle of the field presence of many adults and of juveniles too) !!! 3rd, 4th, 5th instars - Presence also of eggs with *Anagrus* pupae. Few adults attacked by fungi: 1♂ 2♀♀ dry.

- Typhl. 753 - SARDINIA - Homoptera collected with chromotropic traps in tomato crops in Sardinia - Serramanna (VS) - 26-VII-83: 1 ♂ 6 ♀ ♀ .
- Typhl. 763 - PIEDMONT - (Cfr. Typhl. 758) - Predosa-Castellazzo Bormida (AL) - 23-VI-85 - H.P. *Zea mays*: 1 ♂ 3 ♀ ♀ not prepared - Maize plants with 13 leaves - Depigmentations up to the 10th-11th leaf - Healthy eggs or with larva or pupa of *Anagrus*, see joint sheets (counted by P. Mazzoglio: 3 plants) (tillered plants! with 2-3 sprouts: depigmented leaves and without eggs) - Barnyard grass plantlets; depigmented leaves, healthy eggs or with *Anagrus* (joint sheet).
- Typhl. 768 - PIEDMONT - Castellazzo (AL) - Bormida bridge - 7-VII-85 - H.P. *Zea mays*: ♂ ♂ ♀ ♀ not prepared. Plants with 15 leaves - 2-5 leaves with depigmentations (not many) - Leaves (isolated with a small part of the sheath torn!) - With eggs and *Anagrus*.
- Typhl. 787 - PIEDMONT - Quattordio-Felizzano-Solero (Partisans' plaque) (AL) - 21-VII-85 - h 11 - H.P. *Zea mays* (scarsely irrigated) - Beginning of flowering - Plants with 16-19 leaves: 10-13 before the main ear, 6 after the ear - 4 main leaves dry - 5th-8th very depigmented - 9th-13th with a poor depigmentation: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 789 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-VII-85 - h 19-19,30 - H.P. *Zea mays* (irrigated) - Beginning of flowering - Plants with 16-18 leaves - 9-13 leaves before the main ear - 6 leaves after - Proximal leaves still green - Depigmented leaves: 1-5 a lot, 6-7 little, 8-9 scarcely: ♂ ♂ ♀ ♀ not prepared - (Cfr. Typhl. 728).
- Typhl. 790 - PIEDMONT - Casal Cermelli (AL) - (Farm Campagna) - 21-VII-85 - h 19,30-20 - H.P. maize (without furrowing) - Spray irrigation - Hailstone effect on basal leaves - Scarce depigmentations, even on proximal leaves, still green but frayed. Plants with 16-17 leaves - 1-2 (3 ears) - 9-11 leaves before the main ear, 6 leaves after the last ear: 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 815 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets: Cadriano and Viadagola) - 24-VIII-85 - H.P. grapevine cv Montuni and Trebbiano (white grapes) - Grassy vineyard and a little neglected - Old owner, landholder Mr. Zamboni, dr Rapparini's friend - Anticryptogamic treatments: Zineb, Sulphur etc. - Insecticide treatments: 1 Ultrafos against mites, moths, leafhoppers - Plants with foliar symptoms: rolling, thickening, yellowing (Bois Noir?) - Presence of *Empoasca* and symptoms of its attacks: 1 ♂ 3 ♀ ♀ not prepared - *Scaphoideus* missing due to treatments? - 1 ♀ dryinidized.
- Typhl. 816 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets Cadriano and Viadagola) - 24-VIII-85 - H.P. *Zea mays* (2nd sowing) - Remarkable depigmentations on 3-4-5th leaf etc. - Depigmentations also on *Echinochloa crus-galli*: 2 ♀ ♀ not prepared.
- Typhl. 817 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets: Cadriano-Viadagola) - 24-VIII-85 - H.P. grapevine (Trebbiano, Albana) - Vineyard near pond - Neglected, regrazed (*Cynodon* and umbellifers) - Sparrow and blackbird flocks (damage!!!) - Foliar symptoms (20% Trebbiano: 10% Albana): rolling, thickening, tending to yellow, unripened wood, short internodes, elastic canes (Bois Noir?): ! 2 ♂ ♂ 2 ♀ ♀ (1 ♀ dryinidized).

- Typhl. 821 - EMILIA-ROMAGNA - Gualdo di Meldola (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* - (Cfr. Typhl. 506, 507) - Plot next to the stream Bidente - Irrigated - Observations on both rows of maize cut for the passage of an irrigation pipe: heavy infestation by *Zyginidia* - 1st and 2nd leaves dry - Depigmented: 3rd, 4th, 5th a lot, 6th, 7th, 8th remarkably. Very high parasitization by *Anagrus atomus*: sampling of the blade of a 5th leaf: 1,731 eggs (217 + 212 ...) 1,617 of which parasitized - Counted by Arnò (leaves counted by dr Arnò): 1♂ 1♀ not prepared.
- Typhl. 824 - REPUBLIC OF SAN MARINO - Fiorentino - 26-VIII-85 - H.P. *Zea mays* - Small field, next to a vegetable garden. Late flowering, remarkable depigmentation of the 3rd, 4th, 5th leaves: 6♂♂ 3♀♀ dry.
- Typhl. 825 - MARCHE - Mercatino Conca (PU) - 26-VIII-85 - m 275 - Exit of Cattolica, along the Conca stream: dry - H.P. *Zea mays*, topped, ripening, with still green leaves. Small plot next to a vegetable garden - 3rd, 4th, 5th very depigmented leaves. Presence of eggs parasitized by *Anagrus*: 1♂ 1♀ dry.
- Typhl. 826 - EMILIA-ROMAGNA - (Cfr. Typhl. 506, 507, 820, 821) - Morciano di Romagna (RN) - (10 Km from Cattolica) - 26-VIII-85 - H.P. *Zea mays* (irrigated field) - 1st-2nd leaves dry; 3rd-4th-5th-6th leaves considerably depigmented; 7th-8th very depigmented leaves; 9th-10th leaves still depigmented; 11th-16th leaves with traces of depigmentations - Eggs with *Anagrus* - I collected 5 leaves (5th leaf) for *Anagrus*: 1♂ 1♀ not prepared.
- Typhl. 828 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 1-IX-85 - H.P. *Digitaria* and *Echinochloa* in maize: 9♂♂ 2♀♀.
- Typhl. 841 - PIEDMONT - Predosa (AL) - 1-XI-85 - H.P. grapevine (Capriata's vineyard cv Moscato): 1♂ 1♀ not prepared.
- Typhl. 842 - EMILIA-ROMAGNA - Rhynchota (Heteroptera and Homoptera) collected at Tebano (RA) - (leg. Castellari) - 10-VII-85 - H.P. *Vitis vinifera* cv caveccia: 1♂ 1♀ (♂ dryinidized).
- Typhl. 855 - PIEDMONT - Beinasco-Volvera (TO) - 30-VIII-86 - H.P. *Zea mays*, *Sorghum vulgare*: 1♂ 2♀♀ + 1 nymph.
- Typhl. 857 bis - PIEDMONT - Predosa (AL) - 21-IX-86 - H.P. celery: 3♂♂ 4♀♀ (2♂♂ 2♀♀ pipunculidized) - H.P. parsley: 8♂♂ 7♀♀ (4♂♂ 4♀♀ pipunculidized: ♂♂ emerged) - H.P. basil: 4♂♂ 6♀♀ (2♂♂ 3♀♀ pipunculidized) - H.P. pumpkin: 2♂♂ 6♀♀ (1♂ 4♀♀ pipunculidized) - All not prepared - N.B.: the pipunculidized ♂♂ are much bigger than the healthy ones: they reach the length of ♀♀ (healthy or pipunculidized).
- Typhl. 858 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-IX-86 - H.P. *Zea mays*: 20♂♂ 11♀♀ (2♀♀ and 1♂ blocked by pipunculids, 1♂ blocked by a fungus within 24 hours, to prof. Ozino) - N.B.: the pipunculidized ♂♂ are much bigger than the healthy ones: they reach the length of ♀♀ (healthy or pipunculidized). (Transcribed from Typhl. 857 bis not reported here).
- Typhl. 875 - LOMBARDY - Lenno (CO) - 3-X-86 - H.P. *Ostrya carpinifolia* (very depigmented leaves): 1♀ not prepared.
- Typhl. 879 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Zea mays* (11th-18th leaves green): 4♂♂ 7♀♀ not prepared.

- Typhl. 887 - LIGURIA - Imperia - (Capo Mimosa) - 6-XI-86 - H.P. *Eucalyptus globulus* (strong basal suckers; heterophyle): 2 ♀ ♀ not prepared.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected at Este (PD) on potato on 24-VII-86: 5 ♂ ♂.
- Typhl. 906 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 2-VIII-87 - H.P. *Zea mays*: 2 ♂ ♂ 1 ♀.
- Typhl. 923 - PIEDMONT - I.T.A. Alba (CN) - 26-VII-88 - H.P. grapevine (cv Chardonnay) - H.P. *Convolvulus arvensis* (among Chardonnay grapevines): it got abundant after herbicide use - The plants affected by MLO are relatively few: 2 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 928 - FRIULI-VENEZIA GIULIA - Codroipo (UD) - 29-VII-88 - H.P. bean: 1 ♂ 3 ♀ ♀ not prepared.
- Typhl. 929 - VENETIA - Cordignano (TV) - 29-VII-88 - H.P. mint: 2 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 939 - PIEDMONT - Barbaresco (CN) - 3-VIII-88 - Farm La Spinona - Berutti Pietro; Via Secondina 22 - H.P. *Convolvulus arvensis*: 2 ♂ ♂ 6 ♀ ♀ not prepared.

EMPOASCA vitis (Göthe, 1875)

- Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree - (as *flavescens*): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 01 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 11-IX-55 - H.P. apple tree - (as *flavescens*): 1 ♂ 1 ♀ dry.
- Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* shrubs - (as *Empoasca* gr. *flavescens*) - N.B.: no parasitized specimens: 16 individuals of which 5 ♂ ♂ 11 ♀ ♀. Probably they do not belong to a single species. 6 ♀ ♀ dry, 5 ♂ ♂ 5 ♀ ♀ in alcohol.
- Typhl. 16 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Populus euroamericana* (on the bed of a dry stream) - (as *Empoasca* gr. *flavescens*): 2 ♂ ♂ dry - (Cfr. Typhl. 14).
- Typhl. 17 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. different herbaceous species in a *Quercus* coppice - (as *Empoasca* gr. *flavescens*): 1 ♀ dry - (Cfr. Typhl. 14).
- Typhl. 19 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Salix caprea* - Along a ditch with water - (as *flavescens*): 1 ♀ dry.
- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia's and Bianco's properties) - 6-X-56 - H.P. *Alnus glutinosa* - (as *flavescens*): 1 ♂ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *flavescens*): 1 ♂ dry.
- Typhl. 52 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 14-X-56 - H.P. *Vitis vinifera* - (as *flavescens*): 3 ♀ ♀ in alcohol - (Cfr. Typhl. 46).
- Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - (as *flavescens*) - H.P. *Quercus* sp.: 4 ♀ ♀ dry - H.P. *Pinus strobus*: 1 ♂ (in alcohol) 8 ♀ ♀ (3 dry, 5 in alcohol).

- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *flavescens*): 20 individuals of which 7♂♂ (2 dry, 5 in celluloid tube), 13♀♀ (of which 1 dry, 12 in celluloid tube).
- Typhl. 74 - PIEDMONT - Caselette (TO) - (Market) - 27-II-57 - H.P. *Juniperus communis* - (as *flavescens*): 2♂♂ 5♀♀ not prepared.
- Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - (as *flavescens*) - H.P. *Juniperus communis*: 3♂♂ 10♀♀ in alcohol - H.P. *Pinus sylvestris*: 12♀♀ in alcohol.
- Typhl. 80 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 7-IV-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 3♀♀ dry - N.B.: on the lower page of alder leaflets there are some newly hatched neanids of Typhlocyidae.
- Typhl. 82 - PIEDMONT - Caluso (TO) - (Picco Giordano's apple grove) - 14-IV-57 - H.P. apple tree (horizontal cordons) - (as *flavescens*): 3♀♀ not prepared.
- Typhl. 83 - PIEDMONT - Caluso (TO) - (Dry ditch-Salvetti Pietro's property) - 21-IV-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 2♀♀ not prepared.
- Typhl. 84 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 21-IV-57 - H.P. apple tree - (as *flavescens*): 2♀♀ not prepared.
- Typhl. 85 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field and hedge of Tululena's field; hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *flavescens*): 2♀♀. I collected about one hundred individuals (only one ♂) - The "present" host plant is bramble, while in autumn it was grapevine. The different adults are reared on brambles, but it is difficult that ♀♀ will lay eggs, because their host plant should be *Salix* (Ribaut). Presently I find very few adults of other typhlocyids on brambles (besides *Erythroneura simplex*, editor's note).
- Typhl. 88 - PIEDMONT - Susa (TO) - (road of Cesana) - 9-V-57 - H.P. *Populus alba* - (as *flavescens*): 1♀ dry.
- Typhl. 97 - PIEDMONT - Bussoleno-S. Giorio (TO) - 23-V-57 - (as *flavescens*) - H.P. *Vitis vinifera*: many ♀♀ (30, 3 dry) no ♂♂. Like those of other *Empoasca* species (*E. tullgreni* and *E. decipiens*) they have overwintered and only now they lay eggs - H.P. fig tree: 7♀♀ arrived perhaps from nearby grapevines.
- Typhl. 100 - PIEDMONT - Rivoli (TO) - (Risperve Viberti?) - 24-V-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 1♀ dry.
- Typhl. 103 - PIEDMONT - Bussoleno-S. Giorio (TO) - 31-V-57 - (as *flavescens*) - H.P. fig tree: 2♀♀ not prepared - H.P. almond: 1♀ dry - H.P. *Vitis vinifera*: presence of only ♀♀ (8) - (Cfr. Typhl. 97).
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Salvetti Pietro's meadow - Dry ditch - Aiè zone) - 16-VI-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 2♀♀ dry.
- Typhl. 124 - PIEDMONT - Bussoleno-S. Giorio (TO) - 5-VII-57 - (as *flavescens*) - H.P. *Vitis vinifera* - 8 adults: 5♂♂ (1 dry, 4 in alcohol), 3♀♀ (1 dry, 2 in alcohol) - Some nymphs, in alcohol - The adults are all of the new generation and do not yet show the X veins of the wings brown and the uncoloured cells of the tegmina. However, the ♂ genitalia correspond to those described by Ribaut - H.P. *Prunus communis*: 1♂ 1♀ not prepared.
- Typhl. 125 - PIEDMONT - Exilles-Salabertano (TO) - m 1,000 - 5-VII-57 - H.P. potato

- (as *flavescens*) - !! 13 individuals: 5♂♂ (2 dry), 8♀♀ (2 dry) - (Nothing in alcohol).

Typhl. 131 - PIEDMONT - Pialpetta (TO) - (Forno Alpi Graie Valley) - m 1,000 - 10-VII-57 - H.P. potato - (Cfr. Typhl. 125) - (as *flavescens*): a great number of adults, but mostly ♀♀. Of the 24 collected, only 1 is ♂. Presence of 1st and 2nd instars too - 1♂2♀♀ dry. Adults big: mm 3.7; intense green. All easily recognizable by the X of the cubital veins of the wings and by the transparent median cell of the tegmina. Presence of individuals of the var *subvaria* Rey, but not of the var *petiolata* Cerutti.

Typhl. 132 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 10-VII-57 - H.P. *Cannabis sativa* - (as *flavescens*): 1♂ dry - Basic coloration yellowish, with pigmented wing veins differently from the adults collected on potato at Pialpetta (cfr. Typhl. 131).

Typhl. 133 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 10-VII-57 - H.P. *Tilia cordata* - (as *flavescens*): 1♀ not prepared.

Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge. On the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 3♂♂ dry - Length just 3 mm, pale green colour, wings without infumated veins. Genitalia regular.

Typhl. 143 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's alder grove) - 18-VII-57 - H.P. *Alnus glutinosa* - (as *flavescens*): 1♂ dry, 6♀♀ (2 dry) - Transparent cell of the tegmina and brown wing veins very obvious. General colour intense green.

Typhl. 150 - PIEDMONT - Caluso (TO) - (Vidano's house) - 28-VII-57 - H.P. *Prunus persica* - (as *flavescens*): 2♂♂ dry - Cubital wing veins light - (To R. Priore 28-V-1971) ♀♀.

Typhl. 153 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - (as *flavescens*) - H.P. potato: (♂♂ and ♀♀ adults in same number and 4th and 5th instar nymphs) - 4♂♂ dry - H.P. *Cannabis sativa*: 1♂ dry - H.P. *Acer pseudoplatanus*: 2♂♂3♀♀ dry.

Typhl. 154 - PIEDMONT - Pialpetta (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - (cfr. Typhl. 131) - H.P. potato - (as *flavescens*): 3♂♂8♀♀ + 12 5th instar nymphs in alcohol - phot. 4,250, 4,251: ♀ dorsal (dry); 4,252: 5th instar nymph.

Typhl. 159 - PIEDMONT - Gravera (TO) - (Exilles-Salabertano) - 6-VIII-57 - H.P. *Salix alba* - (as *flavescens*): 1♂1♀ dry - Presence of some adults, all much lighter than those found on herbaceous plants.

Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - Along the stream North-East of the village - 17-VIII-57 - H.P. *Vitis vinifera* (leaves characteristically depigmented) - (as *flavescens*): 1♂2♀♀ dry.

Typhl. 167 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 19-VIII-57 - H.P. *Vitis vinifera* - (as *flavescens*): several adults (8♂♂9♀♀) and juveniles.

Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - (as *flavescens*) - H.P. *Vitis vinifera*: 13♂♂15♀♀ (not preserved) - H.P. *Prunus domestica*: 2♂♂2♀♀ (not preserved) - H.P. *Salix alba*: 1♂2♀♀ (not preserved).

Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Carpinus betulus* (as *flavescens*): 7♂♂8♀♀ (not preserved).

- Typhl. 172 - TUSCANY - Porto S. Stefano (GR) - (Orbetello) - 1-IX-57 - H.P. *Vitis vinifera* - (as *flavescens*): 2♂♂ 2♀♀ (not preserved).
- Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Vitis vinifera* - (as *flavescens*): 1♂ dry.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *flavescens*): 3♂♂ 1♀ not prepared.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. grapevine (*Vitis labrusca*) - *Empoasca* sp. (?*flavescens*): 4 nymphs of 3rd, 4th, 5th instars, not prepared.
- Typhl. 197 - PIEDMONT - (Cfr. Typhl. 270) - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - H.P. *Salix alba*, *S. purpurea* - (as *flavescens*): 1♂ 1♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - (as *flavescens*) - H.P. *Alnus incana*: 3♂♂ dry, 11♀♀ (6 dry) - H.P. *Populus nigra*: 1♂ 1♀ not prepared - H.P. *Salix purpurea*: 1♂ 6♀♀ not prepared.
- Typhl. 220 - PIEDMONT - Caluso (TO) - 12-X-57 - H.P. *Vitis vinifera* (Vidano's vineyard) - (as *flavescens*): 1♂ 1♀ not prepared.
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal of Tululena's field) - 26-X-57 - H.P. *Vitis vinifera* - (as *flavescens*): 1♀ not prepared.
- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - H.P. *Picea excelsa* and *Pinus sylvestris* - (as *flavescens*): 2♂♂ 25♀♀.
- Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - (as *flavescens*) - H.P. *Vitis vinifera*: 45♀♀ no ♂♂ - Reared - N.B.: on grapevines treated with sulphur and copper sulphate there are no leafhoppers, that are instead abundant on not yet treated grapevines - Susa (TO) - (road to Cesana) - H.P. *Vitis vinifera*: 1♂ 6♀♀ not preserved.
- Typhl. 246 - PIEDMONT - S. Giorio (TO) - 12-VI-58 - H.P. *Vitis vinifera*: I collected only 3♀♀ of the overwintering generation. There are not yet adults of the spring generation. This is represented by neanids and nymphs of all instars (including mature nymphs). On the same leaf one finds even 6-7 and exceptionally 10-12 juveniles. Also many yellow leaves or with perinervial veins? are very infested (cfr. virosis rearing).
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *flavescens*): 1♂ 1♀ not prepared.
- Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. *Vitis vinifera* - (as *flavescens*): presence of adults (♂♂ and ♀♀ in the same ratio) and of juvenile stages. The grapevine leaves on which there are at least 2 or 3 nymphs or their exuviae show the blade towards the margin very reddened and curved downwards - 15-VIII-58: ♀♀ and 5♂♂ are put on a *Vitis* plantlet.
- Typhl. 253 - PIEDMONT - Colle del Lys (TO) - m 1,300 - 15-VII-58 - H.P. *Pinus sylvestris*, *Pinus nigra*, *Pinus mugo* - (as *flavescens*): 2♂♂ dry. Phot. 5,968-5,969: ♂ dorsal and ventral.
- Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - (Deandrea's vineyard) - (as *flavescens*) - H.P. *Vitis vinifera*: 5♂♂ 6♀♀ in alcohol. Leaves rolled and browned - (Vidano's vineyard): 8♂♂ 8♀♀ reared on *Vitis*.

- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (Dora Riparia Valley) - 22-X-58 - (Left of the military road) - (as *flavescens*) - H.P. *Alnus incana*: 3♂♂ 3♀♀ - H.P. *Rubus fruticosus*: 1♂ - San Giorio (TO) - (Xerothermic oasis) - H.P. *Quercus sessiliflora*: 1♂ 2♀♀ - All not prepared.
- Typhl. 276 - PIEDMONT - Caluso (TO) - (Vidano's home and along the Canal) - 1-XI-58 - H.P. *Lonicera caprifolium*, *L. japonica* - (as *flavescens*): 2♂♂ 2♀♀ not prepared.
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - (as *flavescens*) - H.P. *Acer pseudoplatanus*: 2♂♂ 2♀♀ - H.P. *Alnus viridis*: 3♀♀ - All not prepared.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - H.P. *Alnus viridis* - (as *flavescens*): 1♂ 2♀♀ not prepared.
- Typhl. 290 - PIEDMONT - Cortemilia (CN) - (Alba) - 2-X-59 - H.P. *Corylus avellana* - (as *flavescens*): 2♂♂ 3♀♀ not prepared.
- Typhl. 293 - TRENTINO-ALTO ADIGE - Material of the Osservatorio per le Malattie delle Piante - Bolzano - Re. Letter reference no. 490, pos. 4-5 of 18-X-60 - Dr Gaetano Bua - Appiano (Bolzano) m 500 ~ - October 1960 - (as *flavescens*) - H.P. *Malus communis*: 3♂♂ 14♀♀ (3♂♂ 3♀♀ dry) - Pianizza (BZ) - m 460 approx. - October 1960: 6♂♂ 4♀♀ dry - Very depigmented apple leaves (silvery white), with many last instar nymphal exuviae on the lower page (even 8-10 per leaf) and some 4th and 5th instar nymphs. Among the different samples there were no parasitized specimens.
- Typhl. 295 - TRENTINO-ALTO ADIGE - Material of the Osservatorio per le Malattie delle Piante - Bolzano - Re. Letter Prot. 490, pos. 4-5 of 18-X-60 - Dr Gaetano Bua - Appiano (Bolzano) m 500 ~ - October 1960 - H.P. *Rubus fruticosus* (among vineyards) - (as *flavescens*): 1♀.
- Typhl. 296 - LOMBARDY - Material of prof. G. Domenichini - Institute of Entomology University of Milan - December 1960 - Bizzozzero (VA) - (as *flavescens*) - H.P. pear: 6♂♂ 10♀♀.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - (as *flavescens*): presence of a great number of specimens, also on *Pinus sylvestris* - I collected 1♂ 14♀♀ not preserved.
- Typhl. 308 - VENETIA - Peschiera (VR) - Hills (xerothermic areas) South of Peschiera (3-4 Km from the city) on the right of the road to Goito - 8-VI-61 - H.P. *Rubus caesius* - Hedge near an oak grove with very depigmented leaves - (as *flavescens*): ! 1♂ 1♀ dry just emerged.
- Typhl. 310 - LOMBARDY - Goito (MN) - (Hamlet Sacca) - 8-VI-61 - H.P. *Platanus occidentalis* - (as *flavescens*): 1♂ 1♀ (newly emerged) not prepared.
- Typhl. 314 - CALABRIA - Crotone - 8-VII-61 - (Ente Riforma farm) - H.P. *Vitis vinifera* - (as *flavescens*): few ♂♂ ♀♀ not prepared.
- Typhl. 318 - SICILY - Catania - Mascalucia - (road to Etna) - 10-VII-61 - H.P. *Vitis vinifera*: 1♂ 2♀♀ dry. N.B.: on nearby grapevines no *E. decedens* adults were collected, neither on Tanacetum where there was instead *E. alsiosa*. 2 juveniles not examined.

- Typhl. 326 - SARDINIA - San Gregorio (CA) - road to Muravera (private holding: villa with park and vegetable garden) - 12-VIII-61 - H.P. *Corylus avellana* and *Alnus glutinosa* - (as gr. *flavescens*): 2♂♂ 5♀♀ not prepared.
- Typhl. 328 - SARDINIA - Quartu S. Elena (CA) - (Along the road to Muravera) - 12-VI-II-61 - H.P. *Solanum lycopersicon* - (as gr. *flavescens*): 2♂♂ 7♀♀ not prepared.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Salix* sp. (as *flavescens*): 1♂ 3♀♀ not prepared.
- Typhl. 346 - PIEDMONT - Caluso (TO) - Briamara - Hedge along the Canal, near Scapino's orchard - 23-IX-61 - H.P. *Artemisia vulgaris* - (as *flavescens*): 1♂ 1♀ not prepared.
- Typhl. 347 - PIEDMONT - Locana (TO) - (Orco Valley) - m 613 - 27-IX-61 - H.P. *Salix incana*! - (as *flavescens*): 2♂♂ 2♀♀ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality S. Giovanni - (coppice thickets on the sides of the roads, protected by barbed wire) - 1-X-61 - H.P. *Prunus spinosa* - (as *flavescens*): 2♂♂ dry.
- Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Not karstic small valley, opposite part of the road than Typhl. 351) - 1-X-61 - H.P. *Quercus pubescens* - (as *flavescens*): 1♂ 1♀ dry.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa* - (as *flavescens*): 1♂ 1♀ not prepared.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Cornus sanguinea* - (as *flavescens*): 1♂ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (as *flavescens*) - (Grassy slope with shrubs of various broadleaves, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata*: 2♀♀ - H.P. *Vitis vinifera*: 2♂♂ 3♀♀ all not prepared.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Rhamnus frangula* - (as *flavescens*): 2♂♂ 1♀ not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Mouth of the Bear's cave) - 3-X-61 - (as *flavescens*) - H.P. *Rhus cotinus* (far from the cave, in karstic areas): 1♀ - H.P. *Acer campestre*: 2♂♂ not prepared.
- Typhl. 369 - TRENTINO-ALTO ADIGE - Leafhoppers received in study from prof. Martelli Minos on 16-X-61 - Mezzocorona (TN) - 1-X-61 - (Formigoni) - H.P. grapevine - (as *flavescens*): 3♂♂ 3♀♀ - Ora (BZ) - 21-IX-61 - H.P. grapevine: 1♂ 1♀.
- Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Buxus sempervirens* - (as *flavescens*): 1♀ not prepared.
- Typhl. 379 - PIEDMONT - Caluso (TO) - 10-XII-61 - H.P. *Buxus sempervirens* - (as *flavescens*): 2♂♂ 4♀♀ dry. Phot. 9,491-9,492: ♂.
- Typhl. 380 - PIEDMONT - Moncalieri (TO) - (Park of a villa in the high part of the city) - 28-I-62 - (as *flavescens*) - H.P. *Buxus sempervirens*: 3♀♀ - H.P. *Taxus baccata*: 21♀♀ all not prepared.
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - (as *flavescens*) - H.P. *Juniperus communis*: 1♂ 7♀♀ - H.P. *Rubus fruticosus*: 1♀ all not prepared.

- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town towards Menfi) - 16-IV-62 - H.P. *Vitis vinifera* (plants with shoots 15-20 cm long) - (as *flavescens*): !!! 2 ♀ ♀ dry.
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - (as *flavescens*) - H.P. *Humulus lupulus*: 1 ♂ not prepared - H.P. *Quercus pedunculata* (mixed with *Rhamnus frangula*): 1 ♂ not prepared.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus* - (as *flavescens*): 1 ♂ 1 ♀ not prepared.
- Typhl. 407 - SARDINIA - S. Teresa di Gallura (OT) - 13-VIII-62 - H.P. *Vitis vinifera* - (as *flavescens*): !!! 7 ♂ ♂ 9 ♀ ♀ dry.
- Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena - bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Vitis vinifera* - (as *flavescens*): 2 ♂ ♂ 1 ♀ not prepared.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - (Hamlet Raimondi, Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana* - (as *flavescens*) - (without the brown X): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, not sunny understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. *Carpinus betulus* (low shrubs, tender vegetation) - (as *flavescens*): ! ♂ ♂ ♀ ♀ + juveniles not prepared.
- Typhl. 425 - TUSCANY - Elba Island - Lacona (LI) - (Giaccone's house) - 20-IX-62 - Plains - (as *flavescens*) - H.P. *Vitis vinifera* v (black grapes) - Leaf roll and reddening (zones) not by *Empoasca*! but by ?infective degeneration or by ?senescence. Phot. 10,378-10,379 - v Procanico (presence of Aleatico too) - Internerval yellowing and desiccation not by *Empoasca*. One proximal leaf shows symptoms of an infective degeneration mosaic. Phot. 10,380-10,382 - Maximum length of the leaf with symptoms cm 9.5 - Portoferraio (... 's house) (LI) - Plains - H.P. *Vitis vinifera* v ... (black grapes) - Leaf roll and reddening monitored by the School Baldacci (winy red) not by *Empoasca* (but presence of *E. flavescens*). Phot. 10,410-10,411: transversal sections; 10,409: longitudinal section - v Procanico: ♂ ♂ and ♀ ♀ scarce - No traces on the leaves - Marciana (LI) - H.P. *Vitis vinifera* v Procanico - Vineyard on a slope exposed northwards at a height of m 400 - Grapevines with a rich foliage, strongly infested by *Empoasca flavescens*. ♂ ♂ and ♀ ♀ dry + juveniles. Very obvious marginal burning (in proximal leaves) and rolling (in the still infested ones); little yellowing instead. Phot. 10,385-10,386 - Phot. 10,412-10,413-10,413 bis + A and B: sections - Presence also of *Zygina rhamni* that infests mostly the more protected leaves on the top of the pyramid, each one made of the convergence of 4 grapevine plants - **Drawing** - Pomonte (LI) (after Punta Nera) - H.P. *Vitis vinifera* v Procanico - Many plants affected by discontinuous chlorosis (some by Fan Leaf too). Several leaves show irregular series of white spots (phot. 10,387-10,388) very close to the dechlorophyllated areas due to *Zygina rhamni* attacks (♂ ♂ ♀ ♀ dry + juveniles) that is a pest in this vineyard. *Empoasca flavescens*: 2 ♂ ♂ 1 ♀ dry (phot. 10,389-10,391). While the spots of discontinuous chlorosis are very obvious also watching through the leaf (as both the palisade and the spongy parenchyma are involved) the dechlorophyllated areas caused by *Z. rhamni* attacks are put in evidence only with

oblique light (phot. 10,404-10,406, 10,406 bis, 10,406 ter: sections of leaves affected by discontinuous chlorosis); (phot. 10,407-10,408: section of a leaf attacked by *Z. rhamni*).

- Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Vitis vinifera* - (as *flavescens*): ♂ ♂ ♀ ♀ hardly present.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at a height of m 400 approx., 1 Km before the village, arriving from Poggio) - 20-IX-62 - (as *flavescens*) - H.P. *Vitis vinifera* - (Cfr. Typhl. 425): 10♂ ♂ 10♀ ♀ dry. Presence of a great number of adults and juveniles. No other *Empoasca* species was present. For ampelopathies cfr. Typhl. 425 - H.P. *Castanea sativa* (very low bushes): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 439 bis - PIEDMONT - San Giorio (TO) - 2-X-62 - H.P. *Vitis vinifera* - (as *flavescens*) - (phot. 10,550-10,552: altered leaves; 10,553, 10,554: cold damage; 10,555: chlorosis; 10,555 bis, 10,559: section) - ♂ ♂ ♀ ♀ not prepared.
- Typhl. 464 - LIGURIA - Isolabona (IM) - 15-VIII-63 - H.P. grapevine (*Vitis labrusca* cv Isabella) - (as *flavescens*): 3♂ ♂ 2♀ ♀ dry. Presence of many adults.
- Typhl. 465 - FRANCE - Vence - (Nice) - 16-VIII-63 - H.P. grapevine (*Vitis vinifera* cv Malaga etc.) - *Vitis labrusca* v Isabella - (as *flavescens*): 3♂ ♂ 2♀ ♀ dry - Adults very abundant. Characteristic initial symptoms of the attack (rolling, marginal decolouring, vein browning).
- Typhl. 468 - FRANCE - Urgosse (Gers) - 30-VIII-63 - Domaine Garvage - Colavino Lorenzo - (as *flavescens*) - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ and nymphs - H.P. *Salix viminalis* (near pond - vineyard), *Salix* gr. *caprea* (near pond - village), *S. alba* (near wood), grapevine (near *S. viminalis*): ♂ ♂ ♀ ♀ all not prepared.
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris* - (as *flavescens*): 1♂ not prepared.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Vitis vinifera* - (as *flavescens*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Vitis vinifera* - (as *flavescens*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 495 - SICILY - Typhlocybidæ of the Istituto Nazionale di Entomologia-Roma - Collected by Hartig in autumn 1949 in Sicily: Etna - Determination of 10-VI-64 - Sicily Etna, Pedara, 600 m - 22-XI-48 on *Rubus fruticosus* (*Empoasca* sp., W. Wagner det. 1949) - (as *flavescens*): ? 1♀.
- Typhl. 496 - PIEDMONT - San Giorio (TO) - 16-VI-64 - H.P. *Vitis vinifera* - (as *flavescens*): juveniles (1-3/leaf) - Some varieties with leaves rolled downwards, reddened, thickened, and with brown veins. Few plants (the most luxuriant ones) affected.
- Typhl. 505 - LIGURIA - Bardineto (SV) - m 700 - 6-VIII-64 - H.P. *Rubus idaeus* (cultivated) - (as *flavescens*) - Several adults: 1♂ 1♀ dry.
- Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Vitis vinifera* - (as *flavescens*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 522 - JUGOSLAVIJA - Split - 2-IX-64 - (Experimental Field of the Institut za Jadranske Kulture) - H.P. *Vitis vinifera* - (as *flavescens*): 1♂ 2♀ ♀ dry - To R. Priore 28-V-71.

- Typhl. 528 bis - JUGOSLAVIJA - Montenegro - Lovćen - m 1,300 - (Locality near Njeguši on the road Kotor-Cetinje) - 7-IX-64 - H.P. *Malus pumila* - (as *flavescens*): 2♂♂ dry.
- Typhl. 547 - LOMBARDY - (Val Camonica) - Ponte di Legno (BS) - Passo del Tonale (4th curve) - m 1,400 - 21-VIII-66 - (Mixed broadleaf and conifer wood) - H.P. *Alnus viridis* - (as *flavescens*): 2♂♂ 3♀♀ not prepared.
- Typhl. 570 - SWITZERLAND - Canton Ticino - (Leg. F. Langenberger, Nyon: see letter 10-X-66) - Tegna, Versio (TI), Suisse - 6-X-66 - (as *flavescens*) - H.P. *Vitis vinifera* cv Merlot: 1♂ 3♀♀ dry - Lumino (TI), Suisse - 6-X-66 - H.P. *Vitis vinifera*: 3♂♂ 2♀♀ dry (to R. Priore, 28-V-71).
- Typhl. 571 - SWITZERLAND - Canton of Ticino - (Zones of Lugano and Locarno) - 29-X-66 - Visit to vineyards infested by *Empoasca flavescens*, invited and accompanied by dr Baggiolini of the federal stations of agricultural experiments: Losanne - H.P. *Vitis vinifera* cv Merlot - (as *flavescens*): 5♂♂ 6♀♀ not prepared.
- Typhl. 576 - FRANCE - Nogaro (Gers) - Mr Maronese Romano - 27-IX-68 - H.P. *Vitis vinifera* - Bacò 22 A - (as *flavescens*): few ♂♂ ♀♀ specimens on grapevines bordering on wastelands not prepared - *Scaphoideus littoralis* missing - The vineyard was treated progressively 8 times with Anthio (systemic insecticide and acaricide) of Sandoz. The grapevines that appeared seriously affected by FD in 1963 are now producing and do not show the disease symptoms anymore. Cfr. colour slides.
- Typhl. 579 - LOMBARDY - Pavia - (Santa Maria della Versa) - Determination for Prof. G. Domenichini, reference no. 3,825 of 29-XII-76; see joint copy - 25-VIII-76 - H.P. grapevine - (as *flavescens*): 7♂♂ 6♀♀.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia - (Prof. Romolo Prota) - Determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 22-VIII-77: 1♀ - 29-VIII-77: 1♀ - 8-VIII-77: 1♂ - 25-VII-77: 1♀.
- Typhl. 583 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 3-VII-78 - H.P. *Alnus incana*: 1♀ not prepared (emerged in the glass tube).
- Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing near patches of *Calluna vulgaris* and margins of birch and chestnut woods) - H.P. *Rubus idaeus* (cultivated): 1♀ not prepared.
- Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P. *Populus alba*: 1♀ not prepared.
- Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - H.P. *Quercus pubescens*: 2♂♂ not prepared.
- Typhl. 595 - PIEDMONT - Vinchio (AT) - 6-IX-80 - H.P. *Vitis vinifera*: 7♂♂ 5♀♀ not prepared - phot. (...): ♂ mm 3; (...): ♀ mm 3.3 dry.
- Typhl. 596 - PIEDMONT - Castel Boglione (AT) - 6-IX-80 - H.P. *Salix alba* (near a vineyard): 1♂ 2♀♀ not prepared.
- Typhl. 603 - PIEDMONT - Chianocco-Susa (TO) - 22-II-81 - H.P. *Juniperus communis*, *Pinus sylvestris*: 2♂♂ 9♀♀ not prepared - Specimens used in part to observe brochosomes with the scansion microscope - Inst. Plant Path. Milan (25-II-81).
- Typhl. 604 - PIEDMONT - Foresto - Susa (TO) - 22-II-81 - H.P. *Juniperus communis*: 8♀♀ dry - H.P. *Pinus sylvestris*: 17♀♀.

- Typhl. 604 bis - PIEDMONT - S. Giorio (TO) - 7-VI-81 - H.P. grapevine: 9 ♀ ♀ not prepared + neanids and some nymphs (reared on *Vitis labrusca*) - !!!*Scaphoideus littoralis*: 1 2nd instar neanid, 2 3rd instar nymphs.
- Typhl. 606 - PIEDMONT - Predosa (AL) - 14-VI-81 - H.P. grapevine: 3 ♀ ♀ + 6 juveniles of different instars (foliar symptoms) - *Scaphoideus littoralis*: 3 3rd instar nymphs.
- Typhl. 607 - PIEDMONT - Val Grande di Lanzo - 21-VI-81 - Forno Alpi Graie (TO) - (m 1,219) - H.P. *Solanum tuberosum* - No *Empoasca* - (as Typhl. 131, 153, and 154) - Pialpetta (TO) - (m 1,069): ? 10 ♀ ♀ dry - Breno (Chialamberto) (TO) - (m 950): 1 ♂ 20 ♀ ♀ (8 ♀ ♀ reared), the others dry; the ♂ clarified. In an *Empoasca* ♀ there were 12 mature eggs and another series of 12 able to mature - H.P. *Arctium lappa*: 3 ♀ ♀ - Prati della Via (Chialamberto) - (m 900): 1 ♀ dry.
- Typhl. 609 - PIEDMONT - Mentoulles (Fenestrelle) (TO) - m 1,071 - 5-VII-81 - H.P. *Solanum tuberosum*: ? 3 ♀ ♀ dry.
- Typhl. 610 - PIEDMONT - Perosa Argentina (TO) - m 650 ~ - Rio La Greve - 5-VII-81 - H.P. *Vitis vinifera*: 2 ♂ ♂ 3 ♀ ♀ + nymphs not prepared. *Malacocoris chlorizans*: 1 ♂ 4 ♀ ♀ dry. Adults and 3rd-4th instar nymphs, like at S. Giorio on 7-VI-81 - (Cfr. Typhl. 604) - phot. ♀ adult and nymphs both on grapevine (plant suckers?) and on apple: predators of *Panonychus ulmi* and *Briobia* (eggs, juveniles, and adults). Adults present also on the apple trees of yard in via Donizetti: 1 ♀ dry.
- Typhl. 613 - PIEDMONT - S. Giorio (TO) - 2-VIII-81 - (Travel with dr R. Whitcomb, Beltsville) - H.P. *Vitis vinifera* (very treated with pesticides and sulphur): 3 ♂ ♂ 11 ♀ ♀ + nymphs - 1 ♂ 2 ♀ ♀ dry - 2 ♂ ♂ 6 ♀ ♀ reared on potato.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Lemme stream) - 15-VIII-81 - H.P. *Alnus glutinosa* (stream bed where *Salix* and *Populus* are many, but *Quercus* is missing): 1 ♂ 1 ♀ + nymphs.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Quercus cerris*: suckers growing in coppice with ash (near *Prunus spinosa*, etc.): 1 ♂ 1 ♀ not prepared - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ + nymphs not prepared.
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Vitis* - Adults and juveniles abundant - phot. (...): ♂ on *Alnus glutinosa* - Idem lateral - Length mm 3 dry - phot. (...): ♀ on *A. glutinosa* mm 3.6 dry - 12 ♂ ♂ and 12 ♀ ♀ put on two potted potato plantlets. H.P. *Fraxinus excelsior*: 1 ♂ 2 ♀ ♀ dry.
- Typhl. 628 - PIEDMONT - Groscavallo (TO) - m 1,100 - (The townhall is in the hamlet Pialpetta, m 1,069) - 30-VIII-81 - H.P. *Alnus viridis* (present only in the river bed, from Groscavallo up towards Forno Alpi Graie): 1 ♂ 2 ♀ ♀ not preserved - H.P. *Solanum tuberosum*: 1 ♂ 1 ♀.
- Typhl. 629 - PIEDMONT - Pialpetta (TO) - (m 1,069) - 30-VIII-81 - Observations - At the base of the right orographic slope there is a humid plain rich of Cyperaceae. The same slope hosts a big beechwood - H.P. *Solanum tuberosum* (+ *Phaseolus vulgaris*, *Lappa major*) - (Cfr. Typhl. 607): presence of several adults and juveniles - phot. (...): ♂ dorsal and ventral; (...): ♀ dorsal - 3 ♂ ♂ 2 ♀ ♀ dry - 4 ♂ ♂ and 8 ♀ ♀ reared on potato - 4 ♂ ♂ 6 ♀ ♀ reared on grapevine.
- Typhl. 630 - PIEDMONT - Lagnasco (CN) - 3-IX-81 - Leg. Scaramozzino - H.P. *Actinidia*: 1 ♂ 4 ♀ ♀ dry.

- Typhl. 633 - PIEDMONT - Gattinara (VC) - Baraggia - 17-IX-81 - H.P. *Rhamnus frangula*: 2♂♂ 3♀♀ dry - H.P. *Quercus pedunculata* (coppice in the middle of *Rhamnus*): 2♂♂ 1♀ dry - H.P. *Malus communis*: 1♀ not preserved.
- Typhl. 634 - VENETIA - Villorba (TV) - Leg. Prof. Girolami - VIII-81 - H.P. *Vitis*: 11 4th and 5th instar nymphs not preserved - Montebelluna (TV) - VIII-81 - H.P. *Vitis*: 3♂♂ 6♀♀ not prepared - Leg. dr Pellizzari - Susegana (TV) - 11-VIII-81 - H.P. *Actinidia sinensis*: 3♂♂ 2♀♀ not prepared. Typhl. 634 indicated erroneously, instead of Typhl. 637, for material concerning *Chalarus* sent to Jervis 1983.
- Typhl. 637 - PIEDMONT - Predosa (AL) - 21-IX-81 - H.P. grapevine - Rearing A: Capriata's vineyard 7♂♂ 7♀♀ of which 2♂♂ 3♀♀ pipunculidized (4 cocooned): 4 specimens dry - 11-I-82 1 adult emerged! The others moulded. Rearing B: Paolino's vineyard 3♂♂ 8♀♀ of which 1♂ and 1♀ pipunculidized, 1 cocooned, 1 no (not emerged). Rearing C: Paolino's vineyard - 10♂♂ 18♀♀ of which 2♂ and 1♀ pipunculidized, 1 cocooned (not emerged).
- Typhl. 638 - PIEDMONT - Predosa (AL) - 4-X-81 - H.P. grapevine - Rearing A: 2♂♂ 2♀♀ healthy - Rearing B: 3♂♂ 6♀♀ healthy - Rearing C: 2♂♂ 5♀♀ of which 1♀ pipunculidized (cocooned) - 19-I-82: *Chalarus* sp. emerged, dry, to Jervis for determination (20-V-83) - Rearing D: 4♂♂ 2♀♀ healthy - Rearing E: 3♂♂ 1♀ healthy - Rearing F: 1♂ 2♀♀ healthy - *Stictocephala bisonia*: branches with caulinar and foliar alterations (phot.).
- Typhl. 639 - PIEDMONT - Predosa (AL) - 13-VI-82 - H.P. *Vitis vinifera*: ♂♂♀♀ + juveniles not prepared - *Scaphoideus titanus* -: 1st, 2nd, 3rd instar juveniles.
- Typhl. 639 bis - PIEDMONT - S. Giorio (TO) - 20-VI-82 - H.P. *Vitis vinifera*: ♂♂♀♀ + juveniles (several) not prepared - *Scaphoideus titanus*: 1st-4th instar juveniles (few).
- Typhl. 640 - PIEDMONT - Predosa (AL) - 27-VI-82 - H.P. *Vitis vinifera*: 8♂♂ 11♀♀ reared - Several 2nd generation juveniles (reared) - 1♂ 4♀♀ pipunculidized - pipunculids emerged on 12-13-14-VII-82, dry - Cfr. Typhl. 634, 638, 642 - 2 specimens sent for determination to Jervis (4-X-82: given to Claridge) - 4 specimens sent for determination to Jervis (20-V-83) - *Chalarus spurius* Fallén (det. Jervis 1983) - *Scaphoideus titanus*: several 2nd-5th instar juveniles.
- Typhl. 641 - PIEDMONT - Chiomonte (TO) - (Hamlet Ramats) - 4-VII-82 - H.P. *Vitis vinifera*: 4♂♂ 7♀♀ (none pipunculidized) not prepared.
- Typhl. 642 - PIEDMONT - Predosa (AL) - 11-VII-82 - H.P. *Vitis vinifera*: 9♂♂ 21♀♀ not preserved - 1 pipunculidized specimen - Emerged in August (not prepared) - *Chalarus spurius* Fallén.
- Typhl. 643 - PIEDMONT - Villar Perosa (TO) - m 800 - 18-VII-82 - H.P. *Vitis vinifera*, *Solanum tuberosum*: 2♂♂ 25♀♀ (no parasitized specimens) not prepared.
- Typhl. 646 - LIGURIA - Sanremo (IM) - (S. Romolo stream) - m 200 - Farm Mucci - Isola Superiore - 23-VIII-82 - H.P. *Alnus glutinosa*: 8♂♂ 8♀♀ dry - 1♀ parasitized by *Chalarus*.
- Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa*: 2♂♂ 1♀.
- Typhl. 648 - PIEDMONT - Predosa (AL) - 29-VIII-82 - H.P. *Vitis vinifera*: 15♂♂ 17♀♀ not prepared - 1♀ dissected: 6 mature eggs - *Scaphoideus littoralis*: 1♀ dry.
- Typhl. 649 - PIEDMONT - Costigliole (AT) - 5-IX-82 - H.P. *Vitis vinifera*: 6♂♂ 10♀♀

not preserved (1 ♀ of which pipunculidized, dead). Found about ten ichneumonid specimens in a spiderweb: they are different from those reared until now from *Lobesia botrana* (not prepared).

- Typhl. 650 - LOMBARDY - Rovescala (PV) - 9 June - 21 September 1982 - (Leg. Prof. Domenichini) - Rovescala I - H.P. grapevine - 4-VIII-82: 4♂♂ 7♀♀ - 25-VIII and 9-IX-82: 2♂♂ 1♀ - 9-IX-82: 1♂ - 21-IX-82: 1♂ 4♀♀ - Rovescala II - 21-VII-82: 2♀♀ - 4-VIII-82: 18♂♂ 17♀♀ - 29-VIII-82: 1♀ - 9-IX-82: 2♂♂ 1♀ - 21-IX-82: 7♂♂ 12♀♀; 6♂♂ 5♀♀ - S. Maria della Versa (PV) - 26-V-82: 1♀ - 23-VI-82: 1♀ - 9-IX-82: 1♂ - 21-IX-82: 2♂♂.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Prunus cerasus* (weeping-ornamental): 2♂♂ 5♀♀ not preserved - (Big and green specimens: cfr. Typhl. 662) - H.P. *Betula verrucosa* (railing towards the Medieval Castle): 2♂♂ not prepared (pale and small specimens: cfr. Typhl. 662) - H.P. *Prunus cerasus* and *Betula* - (Cfr. Typhl. 662) - H.P. *Betula verrucosa* (railing towards the playing ground): 1♂ 1♀ not preserved (pale and small specimens) - H.P. *Malus ?communis*: (railing towards the exhibition building): 7♂♂ 2♀♀ not prepared.
- Typhl. 662 - PIEDMONT - Turin - (Valentino Park) - 19-VIII-83 - H.P. *Betula verrucosa* (railing towards the playing ground): 1♂ dry (pale and small specimen: cfr. Typhl. 661 H.P. *Prunus* and H.P. *Betula*).
- Typhl. 670 - LOMBARDY - (as Typhl. 672!) - Rovescala (PV) - February-March 1984 - Leg. Prof. G. Domenichini - (Cfr. Typhl. 650) - 14-III-84 - H.P. brambles: 3♂♂ - 19-I-84 - H.P. brambles: 4♀♀.
- Typhl. 672 - LOMBARDY - (Idem like Typhl. 670 and 670 bis!) - Piacenza and surroundings (PV) - January-March 1984 - (Leg. Prof. Domenichini) - Rovescala (PV) - H.P. brambles - 19-I-84: 4♀♀ ? - 14-I-84: 3♂♂.
- Typhl. 674 - PIEDMONT - Cavaglià (BI) - (Farm) - 9-V-84 - H.P. *Vitis vinifera*: 1♀ not prepared.
- Typhl. 680 - PIEDMONT - S. Giorio! (TO) - 14-VI-84 - H.P. *Vitis vinifera* (with dr Alma): 1♀ not prepared - Delay in appearance of neanids - Eggs: 5 in series, in leaf vein, a little altered and tending to redden - *Scaphoideus titanus*: 5 juveniles of 1st and 2nd instars on a couple of leaves.
- Typhl. 687 - PIEDMONT - Predosa (AL) - 24-VI-84 - H.P. grapevine (beginning of blossoming!): 1♀ + neanids and nymphs (1 5th instar nymph!).
- Typhl. 697 - PIEDMONT - Predosa (AL) - 8-VII-84 - H.P. *Vitis vinifera*: 11♂♂ (3 pipunculidized) 9♀♀ + nymphs - All reared: dr Arnò.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Betula verrucosa* (slope of Cumiana): 1♂ not preserved - H.P. *Acer pseudoplatanus*, young plants m 0.80-2.50 tall, in mixed understorey (*Fagus*, *Prunus cerasus*, *Betula*, *Corylus*, etc.): 4♂♂ 4♀♀ dry - I collected singly on the lower leaf page (presence of exuviae): they are 1st generation adults.
- Typhl. 705 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Vitis vinifera*: 56 adults: 21♂♂ 35♀♀ healthy - 1♂ 5♀♀ with *Chalarus* - 0 with *Aphelopus* - Rearings: 23-VII-84, 5♂♂ 5♀♀ healthy on grapevine in cage: arboretum yard; 1♂ 3♀♀ in a plastic tube: corridor - Eggs for ovipositing *Anagrus* - 1♂ 3♀♀ healthy idem

- 3 ♀ ♀ healthy idem - 4 ♀ ♀ healthy idem - 5 adults (1 ♂ 4 ♀ ♀ pipunculidized) in glass tube with a grapevine leaf - 24-VII: 2 puparia of *Chalarus* - 25-VII: 2 more puparia of *Chalarus*.

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Broadleaf trees prevailing: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos* along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Ame-lanchier chamaedrys* - H.P. *Ostrya carpinifolia*: 1 ♂ dry (on a shaded plant along the stream Tanaro) - (Presence of other individuals like in Typhl. 702) - H.P. *Alnus incana*: 1 ♀ dry.

Typhl. 713 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Vitis vinifera*: 5 ♂ ♂ 15 ♀ ♀ - (1 ♂ 3 ♀ ♀ emptied by the larva of *Chrysopa perla*) - *Scaphoideus titanus*: 4 ♂ ♂ 1 ♀ and 3 5th instar nymphs (2 ♂ ♂ 1 ♀ dry).

Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant shrubs): 1 ♂ 16 ♀ ♀ not prepared.

Typhl. 725 - PIEDMONT - Predosa (AL) - 9-IX-84 - H.P. *Vitis vinifera*: 30 ♂ ♂ 16 ♀ ♀ (used by dr Arnò for rearings) - *Malacocoris chlorizans*: 6 specimens not prepared - *Chrysopa perla*: 1 specimen not prepared. The specimens of *Zygina*, *Empoasca*, *Scaphoideus*, and *Malacocoris* are used by dr Arnò for rearings.

Typhl. 731 - PIEDMONT - Tetti Grondana - Chieri (TO) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age, near the greenhouses): 1 ♂ 3 ♀ ♀ dry.

Typhl. 734 - PIEDMONT - Predosa (AL) - (Material used by Arnò) - 23-IX-84 - H.P. *Vitis vinifera* (Paolino's vineyard): 37 ♂ ♂ 22 ♀ ♀ of which 13 ♂ ♂ 16 ♀ ♀ dry - (24 ♂ ♂ 6 ♀ ♀ with *Chalarus*) - *Malacocoris chlorizans*: 3 ♂ ♂ 1 ♀ dry - *Chrysopa perla*: 4 specimens - *Oecanthus pellucens*: 2 ♂ ♂ 4 ♀ ♀ dry - *Meconema* (apterous): 1 ♀ - *Phaneroptera 4-punctata*: 1 ♂ 1 ♀ - *Ph. falcata*: 1 ♀ dry.

Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - Slope of Garesio - H.P. *Corylus avellana* (near chestnuts, beeches, willows, *Acer*) - First bush (upstream): 1 ♀ not prepared.

Typhl. 759 - PIEDMONT - Predosa (AL) - 9-VI-85 - (Cfr. Typhl. 764) - H.P. *Vitis vinifera* - Overwintering generation: 1 ♂ newly emerged 5 ♀ ♀ - 26 juveniles (8 newly born, 8 2nd instar, 10 of other instars) (reared by dr Arnò) - Proximal leaves with eggs, reared (dr Arnò) - Checks of 11/20-VI-85 - *Anagrus* first species (narrow wings) 15 ♂ ♂ 7 ♀ ♀ - *Anagrus* 2nd species (large wings) 2 ♂ ♂ 1 ♀ - phot. emergence hole of *Anagrus* in leaf stalk - Nabid predator of *E. vitis* adults (phot.) - *Malacocoris chlorizans*: 10 juveniles - *Anystis*: 3 individuals - (Cfr. joint sheet).

Typhl. 761 - PIEDMONT - Chianocco (TO) - 16-VI-85 - H.P. *Vitis vinifera*: 26 juveniles - proximal leaves reddened (phot.) - No *Anagrus* reared - *Scaphoideus titanus*: 5 juveniles of 2nd and 3rd instars (reared by Arnò).

Typhl. 762 - PIEDMONT - S. Giorio (TO) - 16-VI-85 - H.P. *Vitis vinifera*: 7 juveniles (*Anagrus*: 1 emergence hole) - *Scaphoideus titanus*: 6 juveniles - Grapevines treated with insecticides.

Typhl. 764 - PIEDMONT - (Cfr. Typhl. 759) - Predosa (AL) - 23-VI-85 - H.P. *Vitis vinifera*: 1 ♂ 4 ♀ ♀ reared - 1st and 5th instar juveniles - Proximal leaves (1st-4th) reddened, etc.

(phot.) - *Scaphoideus titanus*: 11 juveniles of 2nd and 4th instars (reared).

Typhl. 766 - PIEDMONT - Carema (TO) - (Leg. Vidano-Arzone) - 30-VI-85 - H.P. *Vitis vinifera*: 7♂♂ 8♀♀ (1♂ pipunculidized) + nymphs - phot. leaves with vein browning; plants with reddened and rolled leaves and "marginal burning", no *Zygina rhamni* and *Scaphoideus titanus*.

Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Vitis vinifera*: 4♂♂ 3♀♀ + nymphs - 1♂ pipunculidized: larva 5-VII, emerged 21-VII, ♂ 16 days - *Scaphoideus titanus*: 8 juveniles (5 2nd, 2 3rd, 1 4th instar reared).

Typhl. 769 - PIEDMONT - Predosa (AL) - 7-VII-85 - H.P. *Vitis vinifera*: ♂♂♀♀ - phot. reddened leaves - *S. titanus*: 5 5th instar, 2 4th instar, 1 3rd instar nymphs reared - phot. 5th instar nymph on grapevine.

Typhl. 770 - VENETIA - Costozza - Longare (VI) - 9-VII-85 - h 16-18 - Farm Conte Alvise da Schio - 60 fields (25 ha) - H.P. *Vitis vinifera*: 4♂♂ 4♀♀ not prepared - FD present at least for 4 years - *Scaphoideus titanus* not present - Talked with a worker: [treatments: antiperonosporic, antioïdic, antibotritic, Malathion (Secural) against leafhoppers, Acarien against mites], farmer and phytoiatric advisor (farm connected to Prof. Rui).

Typhl. 771 - VENETIA - Nanto (VI) - 9-VII-85 - h 18,30-20,30 - Farm Nani Antonio - H.P. *Vitis vinifera*: see joint sheet.

Typhl. 772 - VENETIA - Ponte di Barbarano (VI) - (Lodging in hotel S. Giorgio) - 10-VII-85 - h 8-9 - Vegetable garden near the hotel - H.P. *Vitis vinifera* cv Garganega (healthy): 7♀♀ not prepared - *Scaphoideus titanus*: 1♂.

Typhl. 773 - VENETIA - Ponte di Barbarano (VI) - 2-3 Km more South towards Rovolon (PD) - 10-VII-85 - h 9-10 - H.P. *Vitis vinifera* - Barbera, vineyard with about 400 plants; 5 plants with rolled and reddened leaves (?FD). Phot. ground infested by *Amaranthus*: 1♂ 4♀♀ not prepared - *Scaphoideus titanus*: 4♂♂ 2♀♀ + nymphs: 1 of 3rd, 1 of 4th, 3 of 5th instars.

Typhl. 774 - VENETIA - Rovolon (PD) - 10-VII-85 - h 10,20 - Family vineyard, among houses, along the road - H.P. ?Pinot bianco - 30% ~ with symptoms (FD?): 2♂♂ 2♀♀ - *Scaphoideus titanus*: 2♂♂ - all not prepared - phot. grapevines with symptoms - Another vineyard on the hill visited with the guidance of the young owner; no plants with FD symptoms.

Typhl. 775 - VENETIA - Luvigliano (PD) - 10-VII-85 - (Villa del Vescovo) - h 11,00-12,30 - H.P. grapevine, various cultivars, including Moscato, all without FD symptoms: 1♂ 2♀♀.

Typhl. 781 - VENETIA - Giavera del Montello (TV) - 11-VII-85 - h 9,30 - H.P. grapevine (?Merlot) hill base, in meadow - phot. symptoms of ?*Empoasca*: 8♀♀ with eggs, reared - *Scaphoideus titanus*: 4 juveniles, 1 of 3rd and 3 of 4th instar - Povegliano - 11-VII-85 - h 11 - Isolated vineyards in the plain; no symptoms seen.

Typhl. 783 - PIEDMONT - Chianocco (TO) - m 700 - 18-VII-85 - H.P. grapevine (?Barbera) - phot. upper vineyard (m 750) - FD symptoms: 2♂♂ 5♀♀ reared - *Scaphoideus titanus*: 5 juveniles (1 of 3rd and 4 of 4th instar) - Lower vineyard (spring: m 700) - phot. reddening by *Empoasca*: 6♂♂ - *Scaphoideus titanus*: 11♀♀ and 6 juveniles (1 of 3rd, 3 of 4th, 2 of 5th instar).

Typhl. 785 - PIEDMONT - Caluso (TO) - (Briamara) - 20-VII-85 - h 19-20 - H.P. grapevine Erbaluce: 3♂♂ 3♀♀ and 1st-5th instar juveniles - Pergola (Pelera) - Cut 2 canes with the first 8 leaves (2 small proximal ones, and the other 6 big) very thickened, very rolled downward, green, rather rugose, crispy: presence of 1-4 juveniles per leaf; egg-laying traces: 1-4 per leaf: hatched eggs and eggs with emergence hole of *Anagrus*. Apical leaves and leaves of suckers are normal - Phot. veins in the field and in the laboratory - Presence of *Scaphoideus* juveniles and adults + exuviae: 2♂♂ 1♀ and 1 5th instar nymph.

Typhl. 786 - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Refrancore) - 21-VII-85 - h 9,30 - H.P. grapevine cv Barbera: it hailed from the North, unharmed southwards: 3♂♂ 12♀♀ - (reared by Arnò) - *Scaphoideus titanus*: 2♂♂, 1 5th instar nymph not prepared - Ploughing, no weeds - Luxuriant grapevines (seen from South), phot. !!leaves with 4-5/8-10 juveniles of *Empoasca*, but with slight symptoms! Slight thickening of the blade, hint of downward rolling, fair vein browning (phot.).

Typhl. 786 bis - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Arrobio?) - 21-VII-85 - h 10-10,30 - H.P. *Vitis labrusca* (pergola): 1♂ 1♀ - *Scaphoideus titanus*: 3♂♂ 1♀ - H.P. *Vitis vinifera* (Barbera): 3♂♂ 3♀♀ - *S. titanus*: 13♂♂ 1♀ + 1 5th instar nymph - not prepared. Presence of 1-2-3 *E. vitis* juveniles per leaf - considerable rolling in miserable grapevines (similar to FD one, but with the blade reddened) - Leaves apparently normal in luxuriant grapevines: initial vein browning (Virus leafroll or FD?).

Typhl. 788 - PIEDMONT - Predosa (AL) - 21-VII-85 - h 15-18 - H.P. *Vitis vinifera* cv Barbera (Paolino's vineyard) - virus leafroll and reddening by *Empoasca*: 2♂♂ 4♀♀ - *Scaphoideus titanus*: 1♂ - *Convolvulus arvensis* in row and inter-rows plus *Cirsium* - H.P. *Vitis vinifera*, Capriata's vineyard - Barbera: like above - Moscato: virus leafroll - Bois noir - Rolling by *Empoasca*: 2♂♂ 7♀♀ - *Scaphoideus titanus*: 2♂♂ 2♀♀ and 1 5th instar nymph.

Typhl. 791 - PIEDMONT - Candia Canavese (TO) - 24-VII-85 - h 9,30 - Gnavi's vineyard (dr C. Gnavi's son) - H.P. Pinot grigio (4 rows; phot. plants of the first row: only one plant with FD symptoms and *Empoasca*; much more obvious symptoms in Erbaluce than in Pinot grigio) - ?Pinot bianco (some plants!!), Erbaluce young vineyard in row, well grown but grassy (? Piedmontese giornata, surface measure - editor's note): 4♂♂ 14♀♀ - *Scaphoideus titanus*: 1♂ (reared by Arnò). Erbaluce: phot. proximal leaves thickened, rolled, with vein browning, FD yellows - presence of *E. vitis* juveniles (1st and 5th instars): even 8-10/leaf. Leaves with above mentioned symptoms, but without vein browning and no *Empoasca*: ?virus leafroll or FD. Plants with unrolled and unthickened leaves without other symptoms - No *Empoasca* - Suckers: without symptoms (everywhere).

Typhl. 792 - PIEDMONT - Candia Canavese (TO) - (Pachier) - 24-VII-85 - H.P. Erbaluce grapevine (4 Piedmontese giornate) rows, grassy (above all Bermuda grass): 4♂♂ 20♀♀ - *S. titanus*: 1♀ (on bermuda grass!) - (reared by Arnò) - Plants with proximal leaves thickened, rolled, and vein browning - Presence *E. vitis* juveniles: 2-5/leaf - phot. apical canes with FD symptoms (elastic, bent) - Plants with normal

leaves and few *Empoasca* (1-2 juveniles/leaf) - Counted *E. vitis* eggs: healthy or with *Anagrus* holes - Plants in part healthy and in part with symptoms.

Typhl. 793 - PIEDMONT - Caluso (TO) - (Gnavi Corrado) - 24-VII-85 - (road to Mazzè: S. Cristoforo) - H.P. Erbaluce grapevine (1 Piedmontese giornata) - Pergola, ploughed ground: 2♂♂ 4♀♀ - *Scaphoideus titanus*: 1♂ + exuviae not prepared - phot. proximal leaves thickened, rolled, and vein browning - Presence *E. vitis* juveniles: 2-5/leaf - Neighbouring plants with normal leaves and few *Empoasca* juveniles - In heading, along the road Caluso-Mazzè, 6 young Erbaluce plants of 1 and 2 years of age, in alternate position. Cuttings supplied by Ruben (Caluso), Rauscedo, with pruned Erbaluce canes.

Typhl. 795 - SICILY - Milo (CT) - m 740 - 1-VIII-85 - grapevine growing farm Barone di Villagrande - H.P. grapevine cv Gargante (white) 20 ha (Nerello mascalese wine D.O.C.): 4♂♂ 9♀♀ dry.

Typhl. 801 - SICILY - Miano di Valledolmo (PA) - m 700 - 3-VIII-85 - (Near Regaleale nuova. Exit from the motorway Catania-Palermo at Scillano towards Sclafani towards Valledolmo towards hamlet Miano) - H.P. grapevine v Catarratto and v Inzolia (white cvs) - Meeting with Mr Gargano (a son priest, a daughter professoress, and a daughter studentess) - grapevines with mildew: heavily treated with sulphur - Neighbour's grapevine v Catarratto with ?FD symptoms: 3♂♂ 3♀♀ dry - Grapevine v Catarratto - Fenced vineyard near the provincial and country roads: farm of Messrs Conti Benedetto and Sebastiano - heading plants with ?FD symptoms - Photo - Talked with "grafters" and his wife: grapevines with downward rolling, elastic canes, etc. considered healthy by the grafter.

Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano: bianco) - I talked with the wine grower. Present of 6 melons - No symptoms, presence of vegetable crops (melons, tomatoes): 4♂♂ 1♀♀ dry.

Typhl. 805 - SICILY - Dattilo (municipality of Paceco) (TP) - m 100 - 4-VIII-85 - H.P. grapevine (pergola): 2♂♂ 14♀♀ (1♀♀ pipunculidized) dry - Slight vein browning. No vegetable crops.

Typhl. 806 - SICILY - Castelvetro (TP) - (Lago Trinità, m 100) - 4-VIII-85 - H.P. grapevine: no leafhoppers. Phot. some ?FD symptoms. Regrazing: *Cynodon dactylon* (wild), without depigmentations. No *Zyginidia*.

Typhl. 808 bis - PIEDMONT - Salassa (TO) - 11-VIII-85 - H.P. grapevine (Black grapes: ?Barbera) - vineyards in rows, along the road Rivarolo-Salassa. Leaves with convergences and overlapping of symptoms. Rolling, thickening, reddening: Virus leafroll, ?FD + *Empoasca* (presence of adults and juveniles, vein browning): 2♂♂ 3♀♀ not prepared. Phot.: long canes with proximal leaves (6-10) showing symptoms and median and distal leaves (altogether 15-20) without symptoms - Egg counting (dr Arnò).

Typhl. 809 - PIEDMONT - Spineto (TO) - (Castellamonte) - 11-VIII-85 - H.P. grapevine (Barbera, Cardinal, Freisa, Erbaluce): 5♂♂ 10♀♀ + juveniles - No *Scaphoideus titanus* - Leaves with convergences and overlapping of symptoms: virus leafroll, FD? - *Convolvulus sepium*!

Typhl. 811 bis - PIEDMONT - Predosa (AL) - 15-VIII-85 - H.P. grapevine (Paolino's vineyard) - Virus leafroll more and more obvious, with reddening, rolling in Barbera -

- Capriata's vineyard: Barbera with less obvious Virus leafroll - phot. plant with symptoms initially due to *Empoasca*, but now ascribable to Virus leafroll - Moscato (near the house) with remarkable Virus leafroll in all plants. On the bigger and rolled leaves *E. flavescens* adults and juveniles are abundant - phot. vineyard and plants like Typhl. 788 - phot. plant with symptoms of Bois Noir in addition to Virus leafroll. Collected material: *E. vitis*: 3♂♂ 12♀♀ - *Scaphoideus titanus*: 1♂ 2♀♀ - All not prepared.
- Typhl. 813 - PIEDMONT - La Morra (CN) - 18-VIII-85 - H.P. *Vitis* (v Nebbiolo?): 6♂♂ 6♀♀ - *Laodelphax striatella*: 1♀ - All not prepared. Phot. vineyard at the height of m 450 ~ ploughed, without weeds, luxuriant, with few Virus leafroll symptoms.
- Typhl. 814 - PIEDMONT - Barolo (CN) - (Borgogno brothers' farm) - 18-VIII-85 - H.P. grapevine (v Nebbiolo?) - Ploughed, without weeds (except tufts of *Convolvulus arvensis* here and there in the interrows!) - Luxuriant - Some slight leaf rolling: 2♂♂ 6♀♀ not prepared. Phot. also of landscape and signboard: "Barolo".
- Typhl. 815 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlet: Cadriano and Viadagola) - 24-VIII-85 - H.P. grapevine cv Montuni and Trebbiano (white grapes) - Grassy vineyard and a little neglected - Old owner, landholder Mr. Zamboni, dr Rapparini's friend - Fungicide treatments: Zineb, Sulphur, etc. - Insecticide treatments: 1 Ultrafos against mites, moths, leafhoppers - Plants with foliar symptoms: rolling, thickening, yellowing (Bois Noir?) - Presence of *Empoasca* and symptoms of its attacks: 1♂ 3♀♀ not prepared - no *Scaphoideus* because of treatments?
- Typhl. 818 - EMILIA-ROMAGNA - Casale di Faenza - Brisighella (RA) - 24-VIII-89 - H.P. grapevine (Farm Fagnocchi Giovanni) - 7 ha of vineyard: Albana, Trebbiano (white) - Sangiovese, Alicante: 100 plants (black) - Treatments: 2 of fungicides, 1 of insecticides-acaricides - Rather healthy grapevines, without symptoms. But they suffer drought - Farm Tre Re, cv Sangiovese - phot. !!producing plants - 1 and 2 years old, all optimal, without symptoms. Some *Empoasca*: 2♂♂ 3♀♀ not prepared. No *Scaphoideus*.
- Typhl. 819 - EMILIA-ROMAGNA - Tebano - Castel Bolognese (RA) - 24-VIII-85 - H.P. grapevine - Hills on the orographic right side of the stream Senio, in view of Castel Bolognese. At few Km from the previous site: Casale - Vitigno Albana - Remarkable symptoms: rolling, thickening, and yellowing - Immature wood near the nodes, but also strong and concomitant attacks of *Empoasca* - Rolling, vein browning, beginning of marginal burning - Affecting both proximal leaves and the more developed ones of basal suckers: 3♂♂ 6♀♀ not prepared. Exuviae of *Empoasca*: 3-4 per leaf - I collected samples with symptoms of *Empoasca* and Bois Noir for countings - grapevine Sangiovese (red): leaf symptoms of Bois Noir and *Empoasca* + leaves collected with exuviae of *Empoasca* - Photographed everything.
- Typhl. 820 - EMILIA-ROMAGNA - Predappio (FC) - 25-VIII-85 - H.P. grapevine (Sangiovese), luxuriant and well grown vineyard, recent ploughings, without symptoms - Scarce *Empoasca*.
- Typhl. 829 - PIEDMONT - Predosa (AL) - 1-IX-85 - H.P. grapevine (Barbera): counted eggs of *E. vitis*. Leaf and grape cluster by dr Arnò. ?*Empoasca*, ?FD - H.P. grapevine (Capriata's vineyard): 4♂♂ 12♀♀ - H.P. grapevine (cv Luglienga): FD + Bois Noir?; egg counting of *E. vitis* by dr Arnò.

- Typhl. 831 - PIEDMONT - Bricherasio (TO) - (Pinerolo) - 8-IX-85 - H.P. *Vitis* (Freisa, Bonarda, Barbera) in abandoned vineyard, canes with caulinar bottle-neck and distal leaves rolled, reddened by *Stictocephala bisonia*'s attacks: 9♂♂ 13♀♀ healthy not prepared. Egg counting with separate leaves (dr Arnò) - Foliar symptoms: *Empoasca*, *Zygina* - FD or Bois Noir on 5 neglected plants (along the road): Barbera - Bois Noir on grapevine Luglienga near a house.
- Typhl. 832 - PIEDMONT - Turin - Corso Palermo: dr Arnò's garage - 11-IX-85 - H.P. grapevine Luglienga - Adults and juveniles not prepared - Rolling, thickening (?FD + remarkable rolling above all the 4-5 proximal leaves) - Counted *Anagrus* - phot. - ♂♂ ♀♀ + juveniles not prepared.
- Typhl. 834 - PIEDMONT - Predosa (AL) - 15-IX-85 - H.P. grapevine (ripe grapes): still green leaves in the best plants, reddening in Barbera, Dolcetto, and Freisa - Paolino's vineyard - Virus leafroll obvious in Barbera plants: normal lignification - Leafroll by *Empoasca* in Cortese plants - Capriata's vineyard, very little Virus leafroll in Barbera: normal lignification. Little leafroll by *Empoasca* in luxuriant Barbera - Luglienga: 3 plants with leafroll by virus or *Empoasca* (abundance of *Empoasca* and vein browning) - Cortese: vineyard near apple grove with heading plants showing leafroll by virus or *Empoasca*. On the East side few symptoms and few *Empoasca*, on the West side strong rolling, plenty *Empoasca* and remarkable apical vein browning - Egg counting by dr Arnò - Moscato: vineyard near the house with heading plants (near the road) showing leafroll; phot. for FD or ?Bois Noir on 21-VII-85 - (Cfr. Typhl. 788) - Now: normal lignification (except 2 proximal green suckers) - Leafroll on the West side (with *Empoasca* and vein browning) - Normal leaves on the East side - Egg counting by dr Arnò - 24♂♂ (12 with *Chalarus*), 36♀♀ (4 with *Chalarus*) - *Scaphoideus titanus*: 2♀♀.
- Typhl. 835 - PIEDMONT - Candia Canavese (TO) - 24-IX-85 - H.P. grapevine Erbaluce (vineyard Pachier), leg. Alma: ♂♂ ♀♀ and Bois Noir - H.P. grapevine Erbaluce (vineyard Gnavi), leg. Alma: *Empoasca* and Bois Noir - Sample for *Anagrus atomus* (dr Arnò).
- Typhl. 836 - TUSCANY - Elba Island - Marciana (LI) - m 400 - 27-IX-85 - H.P. grapevine cv Procanico (same as Trebbiano) - Small trees (tall) - I collected canes with series of 14-18 leaves showing rolling, vein browning, and (the proximal ones) marginal burning - phot. - Counted by dr Arnò - 2♂♂ 8♀♀ not prepared.
- Typhl. 837 - TUSCANY - Elba Island - Porto Azzurro (LI) - 27-IX-85 - Farm Sapere (in plains) - H.P. grapevine Procanico (not treated with insecticides), Guyot rows (high). Frequent presence, but not worrying, of series of leaves (8-10) with symptoms of *Empoasca*. Leaf samples for countings: dr Arnò. Near Porto Azzurro and Marina di Campo: Procanico. Apical convergence of 4 plants. Remarkable *Empoasca* symptoms.
- Typhl. 838 - PIEDMONT - Predosa (AL) - 29-IX-85 - H.P. grapevine: 9♂♂ 19♀♀ *Empoasca* (reared individually for parasites) - Luglienga sampling to dr Arnò. *Chrysoperla carnea*: 8 - *Oecanthus pellucens*: 1♂ 1♀, released in the arboretum and not reared because in bad health.
- Typhl. 839 - PIEDMONT - Salto (TO) - (Cuorgnè) - 8-X-85 - Leg. Arnò, Alma - H.P. grapevine Erbaluce: symptoms of *E. vitis* - Checked by dr Arnò.
- Typhl. 840 - PIEDMONT - Barolo and La Morra (CN) - 16-X-85 - Leg. Arnò, Alma - H.P. grapevine: ♂♂ ♀♀ (dr Arnò).

- Typhl. 841 - PIEDMONT - Predosa (AL) - 1-XI-85 - H.P. grapevine (Capriata's vineyard, cv Moscato): 4♂♂ + nymphs not prepared. Canes with leaves rolled by *E. vitis* (checks by dr Arnò) - cv Cortese - Canes with leaves rolled by *E. vitis* (checks by dr Arnò) - Paolino's vineyard cv Barbera - Canes with leaves rolled by *E. vitis* (checks by dr Arnò).
- Typhl. 842 - EMILIA-ROMAGNA - Rhynchota (Heteroptera and Homoptera) collected at Tebano (RA) - (leg. Castellari) - September-85 - H.P. *Vitis vinifera* cv Caveccia: 2♂♂ - H.P. *Vitis vinifera* cv Sangiovese: 1♀.
- Typhl. 844 - EMILIA-ROMAGNA - Auchenorrhyncha collected in October 1985 near Faenza (RA) by dr Bellardi - Sample no. 1: 1♂ 3♀♀.
- Typhl. 851 - PIEDMONT - Predosa (AL) - 15-VIII-86 - H.P. *Vitis* (Capriata's vineyard cv Moscato): 17♂♂ 29♀♀ not prepared - *Malacocoris chlorizans*: 2♂♂ 5♀♀ - *Scaphoideus titanus*: 1♀ not prepared - Parasites missing - Paolino's vineyard (Barbera and Cortese): 17♂♂ 13♀♀ - *Malacocoris chlorizans*: 1♀ - *S. titanus*: 4♂♂ 4♀♀ not prepared. Parasites missing.
- Typhl. 852 - PIEDMONT - Predosa (AL) - 17-VIII-86 - H.P. *Vitis* (Capriata's vineyard): 8♂♂ 4♀♀ without parasites, not prepared - *Oecanthus pellucens*: 1♂ 2♀♀.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 2♀♀ (1 pipunculidized) not prepared - H.P. *Salix alba* and *Salix* spp. (along the Tanaro): 1♂ 1♀ not prepared.
- Typhl. 857 ter - PIEDMONT - Predosa (AL) - 21-IX-86 - H.P. *Vitis vinifera* (Capriata's and Paolino's vineyard): 12♂♂ 11♀♀ not prepared - *Chrysoperla carnea*: 1♂ - *Scaphoideus titanus*: 1♀ not prepared.
- Typhl. 859 - VENETIA - Maserada sul Piave (TV) - Leg. Arzone, Alma, Arnò - 24-IX-86 - farm Tonini - H.P. *Vitis*: Pinot (white) with FD or BN - Merlot (black), Prosecco (white): without symptoms: 4♂♂ 5♀♀ not prepared.
- Typhl. 861 - FRIULI-VENEZIA GIULIA - Cividale (UD) - 25-IX-86 - H.P. *Vitis* (no re-grazing); Pinot bianco with BN or FD? symptoms - Camembert (black) without symptoms: 2♀♀ + 1 nymph (windy) not prepared - No *Arboridia* - Exuviae of *Scaphoideus titanus*. See joint sheet.
- Typhl. 862 - FRIULI-VENEZIA GIULIA - Prepotto - Hamlet of Cialbe (UD) - 25-IX-86 - H.P. *Vitis* (well grown) ?Pinot bianco with BN or FD? - *Empoasca vitis*? *Zygina rhamni*? No *Arboridia dalmatina*.
- Typhl. 863 - FRIULI-VENEZIA GIULIA - Prepotto, towards Albana (UD) - 25-IX-86 - H.P. *Vitis*, Pinot bianco (*Phylloxera*) - *E. vitis* 4-5 juveniles/leaf - *Scaphoideus titanus* exuviae.
- Typhl. 864 - FRIULI-VENEZIA GIULIA - Podresca (UD) - 25-IX-86 - Leg. Arzone, Alma, Arnò - H.P. *Vitis* (?Pinot, scarce symptoms): ♂♂ ♀♀ not prepared - Exuviae of *Scaphoideus titanus*.
- Typhl. 866 - FRIULI-VENEZIA GIULIA - Cormons, hamlet Brazzano (GO) - 25-IX-86 - H.P. *Vitis* - Pinot bianco: *E. vitis* symptoms, leaves with marginal burning, vein browning. No symptoms of FD and BN: 41♂♂ 39♀♀ + 1 nymph not prepared - Average: 2 adults and 5 juveniles/leaf - 20 leaves for egg counting and emergence or parasites. See joint sheet.
- Typhl. 867 - FRIULI-VENEZIA GIULIA - San Floriano del Collio (GO) - 25-IX-86 -

H.P. *Vitis* - Pinot bianco *E. vitis* scarce - Another vineyard: Pinot grigio with FD or BN? *E. vitis* abundant. See joint sheet.

Typhl. 867 bis - FRIULI-VENEZIA GIULIA - Gradisca (GO) - 25-IX-86 - H.P. *Vitis* ?Pinot bianco - Not FD symptoms - *E. vitis* scarce. See joint sheet.

Typhl. 869 - VENETIA - Nanto (VI) - 26-IX-86 - H.P. *Vitis* (farm Cozza Aldo) - Pinot bianco: symptoms of BN or FD? - Rolling, vein yellowing, clusters with withered grapes: canes for cuttings - 3♂♂ 2♀♀ not prepared - Treatments - Sauvignon (white) - *Phylloxera*.

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Vitis vinifera* (Paolino's vineyard): 2♂♂ 4♀♀ all healthy, not prepared - H.P. *Quercus cerris* (above all luxuriant shrubs and canopies): 5♂♂ 6♀♀ not prepared.

Typhl. 898 - PIEDMONT - Predosa (AL) - 7-VI-87 - H.P. *Vitis vinifera* (vineyard Predosa): useful collecting on the few plants (2-3 per row + luxuriant) - (I collected using a glass tube; ploughed ground; close to wastelands) - *Scaphoideus titanus*: 16 1st instar neanids, 5 2nd instar reared - ♂♂♀♀ not prepared - Paolino's vineyard, near the Capriata's vineyard - *S. titanus*: 24 neanids reared (10 of 1st instar, 14 of 2nd) - (only on leaves of upright canes). *E. vitis*: 5♀♀ + neanids and nymphs not prepared.

Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - (Capriata's vineyard, near *Q. cerris*) - H.P. *Inula viscosa* (near grapevine): ! 3♀♀ - H.P. *Convolvulus arvensis* (near grapevine): ! 1♀.

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. grapevine (Paolino's vineyard): 2♀♀ - *S. titanus*: 2♂♂ - Capriata's vineyard (near wasteland) - *S. titanus*: 1♀ - Paolino's and Capriata's vineyards (near *Prunus*): 5♂♂ 10♀♀ - *S. titanus*: 1♂, 1 5th instar nymph - *Stictocephala bisonia*: 1♂ - Capriata's vineyard (Moscatto): 6♂♂ 2♀♀ - All not prepared.

Typhl. 905 - PIEDMONT - Strambino (TO) - 19-VII-87 - (Leg. dr Alma) - H.P. grapevine: ♂♂♀♀ not prepared.

Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard) - FD: 2 plants with symptoms on the 23rd row (checks by dr Alma): 6♂♂ 3♀♀ not prepared.

Typhl. 910 - GREECE - Thessaloniki - Mihaniona - (Fishermen village) - 10-X-87 - H.P. *Vitis vinifera*: 2♂♂ dry.

Typhl. 916 - PIEDMONT - Predosa (AL) - 28-VI-88 - Dr Alma - H.P. grapevine (Paolino's vineyard): ♂♂♀♀ - *S. titanus*: neanids + 4th and 5th instar nymphs not prepared.

Typhl. 917 - AOSTA VALLEY - Nus (AO) - m 700 - 30-VI-88 - H.P. grapevine: ♂♂♀♀ + juveniles not prepared - *Chrysoperla carnea*: eggs and adults - *S. titanus* not found.

Typhl. 919 - AOSTA VALLEY - Aosta - St. Pierre - Torrette, m 900 - 30-VI-88 - H.P. grapevine (blossoming, vineyard regrazed): ♂♂♀♀ + juveniles - *S. titanus* not found.

Typhl. 920 - AOSTA VALLEY - Aosta - Morgez - Lavancher - m 1,000 - 30-VI-88 - H.P. grapevine (gazebo near *Pinus sylvestris*) - *E. vitis* poorly represented - *S. titanus* not found - H.P. *Solanum tuberosum* (near a vineyard): 1♂ 1♀ not prepared.

Typhl. 921 - PIEDMONT - Carema (TO) - 30-VI-88 - H.P. grapevine (along the road) - *E. vitis* infesting with symptoms - *S. titanus* not found.

- Typhl. 922 - PIEDMONT - Predosa (AL) - 26-VII-88 - H.P. grapevine - Chardonnay (Paolino's vineyard): ♂♂ ♀♀ + juveniles - Vein browning overlapped on FD - Luglienga Capriata's vineyard: ♂♂ ♀♀ + juveniles - Intense symptoms (rolling, vein browning, marginal burning) - *Malacocoris chlorizans*: adults and juveniles - *S. titanus*: ♂♂ ♀♀ + 4th and 5th instar nymphs - All not prepared.
- Typhl. 922 bis - LIGURIA - Ventimiglia (IM) - La Mortola - Hotel Eden - 26-VII-88 - H.P. false pepper: 7♂♂ 8♀♀ 3 5th instar nymphs.
- Typhl. 923 - PIEDMONT - I.T.A. Alba (CN) - 26-VII-88 - H.P. grapevine Chardonnay: 3♂♂ 9♀♀ + juveniles not prepared - Commonly represented in leaves affected by rolling, after a long absence because of treatments - not prepared - *S. titanus* missing.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. grapevine (locality Borbore): 4♂♂ 14♀♀ not prepared - *S. titanus*: 3♂♂ 3♀♀ + a 4th and a 5th instar nymph, not prepared.
- Typhl. 925 - PIEDMONT - Chieri (TO) - (Istituto Agrario Bonafous) - 26-VII-88 - H.P. grapevine (Luglienga), leaf rolling and vein browning: ♂♂ ♀♀ + juveniles - ?Freisa (unaltered leaves, even if with 6-8 *Empoasca* neanids and nymphs each) - *Empoasca* sp. neanids and nymphs reared on *Vitis labrusca* by dr Tavella - 8-VIII-88: 4♂♂ 4♀♀ of *E. vitis* emerged.
- Typhl. 926 - PIEDMONT - Perosa Argentina (TO) - m 700 - 27-VII-88 - H.P. grapevine (leaf rolling and vein browning): 2♂♂ 5♀♀ not prepared + juveniles.
- Typhl. 928 - FRIULI-VENEZIA GIULIA - Codroipo (UD) - 29-VII-88 - H.P. grapevine (next to bean) - Vineyard regrazed with little *Convolvulus*: 5♂♂ 15♀♀ not prepared - *S. titanus* missing.
- Typhl. 929 - VENETIA - Cordignano (TV) - 29-VII-88 - H.P. grapevine - Pinot bianco (labelled) - Vineyard regrazed, with Gramineae, *Convolvulus* with symptoms, a lot of mint - No *Metcalfa*, no *Scaphoideus*, no symptoms FD - A lot of *Empoasca*: 7♂♂ 7♀♀ + juveniles not prepared.
- Typhl. 932 - TRENTINO-ALTO ADIGE - Vezzano (TN) - 29-VII-88 - H.P. grapevine (vineyard regrazed with *Glechoma*, Gramineae, umbellifer). No FD symptoms: ♂♂ ♀♀ abundant not prepared - *S. titanus* missing.
- Typhl. 933 - TRENTINO-ALTO ADIGE - Pergolese-Sarche (TN) - 29-VII-88 - H.P. grapevine (vineyard regrazed: Gramineae): ♂♂ ♀♀ not prepared - *S. titanus* missing - Symptoms FD missing.
- Typhl. 934 - LOMBARDY - Nuvolento (BS) - 30-VII-88 - H.P. grapevine (vineyard regrazed): 8♂♂ 9♀♀ not prepared. *S. titanus* missing - FD symptoms missing.
- Typhl. 936 - EMILIA-ROMAGNA - Caorso (PC) - 30-VII-88 - H.P. grapevine, sparse rows, regrazed (convolvulus, nettles, *Daucus*, Gramineae) - few *E. vitis* - few *S. titanus* - FD symptoms missing.
- Typhl. 937 - LOMBARDY - Rovescala (PV) - 30-VII-88 - H.P. grapevine (Virus leafroll symptoms): 4♂♂ 7♀♀ not prepared - *S. titanus*: 2♂♂ 4♀♀ and 2 nymphs not prepared - Hamlet Cànova - H.P. grapevine (Bonarda = Croatina) - Yellow leaves here and there with exuviae of *S. titanus*, altogether nice grapevines, many *Scaphoideus* and *Empoasca*.

- Typhl. 938 - PIEDMONT - I.T.A. Alba (CN) - 3-VIII-88 - H.P. *Vitis* Chardonnay (luxuriant vineyard and apparently uniform) - FD symptoms in leaves, canes, and grapes, altogether poorly obvious - potted indicator plants with turf dug and in part fallen on the ground: ruined broad bean plantlets (phot.) - Soil again grassy. After a chemical herbicide treatment *Convolvulus arvensis* and *Cynodon dactylon* shoots are many in the mixed vineyard - *E. vitis* gets again abundant after systemic fungicide treatments - *S. titanus* missing.
- Typhl. 939 - PIEDMONT - Barbaresco (CN) - 3-VIII-88 - Farm La Spinona - Berutti Pietro - H.P. grapevine Chardonnay (treatments) - Very few blight traces, despite the favourable ecologic conditions - Vineyard particularly luxuriant in the rows close to the road: FD symptoms poorly obvious and masked in the thick vegetation. In the rows of the middle and upper parts the symptoms are remarkable and frequent (~1 plant every 10); nobody checked them before. Presence of 3 plantlets with symptoms also in 1 neighbouring plot with grapevines of 1 year of age: ♂ ♂ ♀ ♀ and juveniles scarcely represented - *S. titanus*: 1 ♂ scarcely present because of treatments against *Lobesia* - H.P. *Panicum crus-galli* (isolated tufts) - *Laodelphax striatellus*: 1 ♂ 2 ♀ ♀ also on grapevine not prepared.
- Typhl. 940 - PIEDMONT - Vezza d'Alba (CN) - 3-VIII-88 - H.P. grapevine (vineyards on the hill, near the village): 3 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 941 - PIEDMONT - Chieri (TO) - (Istituto Agrario Bonafous) - 8-VIII-88 - Vidano, Arzone, Arnò, Porporato, Falco - H.P. grapevine: ♂ ♂ ♀ ♀ - Even series of 8 individuals/leaf - Remarkable symptoms in Erbaluce, Luglienga, and Moscato (marginal burning) - Less intense symptoms in black grape cultivars (Barbera, Freisa). Strong infestations due above all to the transformation of the rows in a kind of gazebo, for the excess of vegetation and no green pruning - *Zygina rhamni* poorly present - *S. titanus*: presence of exuviae, but not of nymphs and adults - Young Chardonnay grapevines: no symptoms ascribable to FD - phot. plantlets with leaf rolling and vein browning caused by *E. vitis* - Potted indicator plants: periwinkle, no symptoms; broad bean, 1 plant with yellowing (phot.) - Pot ground dug like in Alba: periwinkle undamaged, but broad bean often ruined - grapevine Erbaluce: 4-5 plants on the North heading of the row no. 6 with symptoms referable to FD, considerable in proximal leaves (phot.).
- Typhl. 946 - PIEDMONT - Caluso (TO) - (road of Mazzè) - 10-VIII-88 - H.P. grapevine Erbaluce (under observation since 1986 for FD) - Foliar alterations due to hail 1 month ago - Remarkable leaf rolling above all in proximal leaves: ♂ ♂ ♀ ♀ - Scarcely represented because of treatments - *S. titanus* not present neither as exuviae: treatments!
- Typhl. 947 - PIEDMONT - Romano Canavese (TO) - 10-VIII-88 - Dr Alma's vineyard (grapevine "Erbaluce" with remarkable leaf rolling) - *E. vitis* abundant, *S. titanus* frequent with many exuviae, even 6 of 5th instar on a same leaf. Alterations in leaves, grapes, and canes for a strong hailstorm 1 month ago. Young grapevines in an experiment of "Chardonnay" and "Erbaluce" without symptoms and rather depressed by grass - Normal indicator plants (broad bean and periwinkle), without symptoms.
- Typhl. 951 bis - LOMBARDY - Valtellina - Traona (SO) - 20-VIII-88 - Miss Bianchi's vineyard (dr Baiocchi) - Healthy Chardonnay - *E. vitis* and foliar symptoms - *Convolvulus* with MLO - *S. titanus* missing.

- Typhl. 952 - PIEDMONT - Barbaresco (CN) - 30-VIII-88 - Vidano, Arzone, Alma - Vineyard Berruti - wine technician Danilo - cv "Chardonnay" - *E. vitis* common and sometimes abundant - Vein browning - phot. FD symptoms.
- Typhl. 954 - PIEDMONT - Neive (CN) - (Locality Gallina) - 30-VIII-88 - Vineyard Cattedra Viticoltura - H.P. grapevine "Chardonnay": ♂ ♂ ♀ ♀ not prepared. Phot. 3 plants with FD - "Pinot bianco": first row with a plant showing FD: phot.
- Typhl. 955 - PIEDMONT - Predosa (AL) - 6-IX-88 - Vidano, Arzone, Alma, Arnò, Falco - Paolino's vineyard - Chardonnay: photographed plants with FD? symptoms - Red wine cultivar (towards Capriata's vineyard) photographed ?FD: ♂ ♂ ♀ ♀ not prepared - *Lobesia* missing - Capriata's vineyard: photographed Luglienga with leaf rolling by ?*E. vitis*.
- Typhl. 956 - PIEDMONT - Alba (CN) - (I.T.A. Alba) - 6-IX-88 - H.P. grapevine Chardonnay. Checked the FD problem in 2 rows. I noted both an increase and a decrease of cases compared with 1986 maps. Total check planned on Friday 9-IX-88. Phot. emblematic FD cases. Ground clear. Grapevines treated with fungicides. No *E. vitis* and *Lobesia*.
- Typhl. 957 - PIEDMONT - Chieri (TO) - (Istituto Bonafous) - 10-IX-88 - H.P. grapevine - Photographed broad bean and periwinkle with symptoms (in the big cage). Photographed Erbaluce with leaf rolling and vein browning (not FD like in 1987). Photographed marginal burning in various *Vitis*.
- Typhl. 958 - PIEDMONT - Fara (NO) - 15-IX-88 - H.P. grapevine (Erbaluce of 20-25 years of age): Leafroll + ?FD. Common (leaves with 10-12 individuals). Symptoms. Chemical herbicide treatment.
- Typhl. 970 - PIEDMONT - Barbaresco (CN) - 25-VII-89 - H.P. *Vitis*: 1 ♂ 5 ♀ ♀ + 1 5th instar nymph.

GENUS *ASYMMETRASCA* Dlabola, 1958

ASYMMETRASCA decedens Paoli, 1932

- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (bed of the stream Deiva) - 16-VIII-57 - H.P. *Salix purpurea* - (as *Empoasca*): 6 ♂ ♂ (2 dry, 4 in alcohol), 13 ♀ ♀ (4 dry, 9 in alcohol) - Host plant leaves with obvious dechlorophyllated spots.
- Typhl. 202 - LIGURIA - Staglieno - (Bisagno stream) (GE) - 2-X-57 - H.P. *Salix purpurea* - (as *Empoasca*) - Presence of juveniles of all instars and adults: 1 ♂ dry, 5 ♀ ♀ (1 dry 4 in alcohol) + nymphs in alcohol.
- Typhl. 314 - CALABRIA - Crotone - (Ente Riforma farm) - 8-VII-61 - H.P. *Prunus persica* - (as *Empoasca* correct *Asymmetrasca*): ! 2 ♂ ♂ 8 ♀ ♀ dry - 1 ♀ reared from a nymph - The peach trees involved are mixed with pepper, tomato, and egg plants, on which *decedens* was not found.
- Typhl. 318 - SICILY - Mascalucia (CT) - (road to Etna) - 10-VII-61 - H.P. *Ailanthus glandulosa* (thickets of low, bushy plants) - (as *Empoasca*): 2 ♂ ♂ 3 ♀ ♀ dry - Presence of many adults (♂ ♂ recognizable by the long setae of the genital blades) - The leaves however are not depigmented. In the glass tubes they pierced only the veins of *Ailanthus* leaves put at their disposal. ♀ ♀ with the abdomen completely green, ♂ ♂ with

1st-7th urites yellowish. Tarsi white.

- Typhl. 323 - SARDINIA - Fertilia (SS) - 10-VIII-61 - H.P. *Medicago sativa* - (as *Empoasca*): ! 1♂ dry - Many adults of the 3 species (*E. pteridis*, *decedens*, *alsiosa*, editor's note) mixed.
- Typhl. 326 - SARDINIA - S. Gregorio (CA) - road to Muravera (private holding: villa with park and vegetable garden) - 12-VIII-61 - H.P. *Salix cinerea*: 2♂♂ 8♀♀ and nymphs not preserved.
- Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the Timavo (TS) - (Bridge of the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Salix alba*: 6♂♂ dry.
- Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - H.P. egg plant (*Solanum melongena*): 1♂ dry.
- Typhl. 377 - SARDINIA - Cagliari - Iglesias - (Halfway between Iglesias and Domusnovas) - 19-X-61 - H.P. *Salix triandra*: ? 1♀ dry.
- Typhl. 382 - SICILY - Passo Zingaro (CT) - m 650 - Mt. Etna (after Adrano) - 12-IV-62 - H.P. *Urtica rupestris* - (as *Empoasca*): 1♂ 2♀♀ not prepared.
- Typhl. 383 - SICILY - Catania - road to Siracusa (after the airport) - 14-IV-62 - H.P. *Ricinus communis*!: ! 2♂♂ 10♀♀ dry - (some adults reared from nymphs) - H.P. *Chrysanthemum coronarium*! (Compositae): 1♂ 4♀♀ not preserved - H.P. *Cichorium intybus*!: 1♂ 1♀ not preserved.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Salix caprea*!: ? 1♀ not preserved.
- Typhl. 385 - SICILY - Agrigento - m 230 - (Near Pirandello's house) - 16-IV-62 - H.P. *Prunus amygdalus* (almond): 1♂ dry.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Salix purpurea*!, *S. caprea*! - (as *Empoasca*): ! 2♂♂ 4♀♀ not prepared.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (SS) - (Near the mine) - 10-VIII-62 - H.P. *Medicago sativa* (mowed and windy: passage of *E. decipiens* from occasional hosts): 2♂♂ (near *Salix alba*) dry - H.P. *Salix alba*: 3♂♂ 16♀♀ not prepared.
- Typhl. 425 - TUSCANY - Elba Island - Portoferraio (LI) - (... 's house) - plains - 20-IX-62 - H.P. *Vitis vinifera* v (black grapes): 1♂ dry - Leafroll (and red grapevine reddening), checked by the school Baldacci, not caused by *Empoasca*, but presence of *E. flavescens*. Phot. 10,410-10,411 transversal sections; 10,383-10,384; 10,409 longitudinal section.
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Phaseolus vulgaris* (200 m far from the above mentioned tomato, *S. lycopersicon*, editor's note): 2♂♂ 2♀♀ dry.
- Typhl. 437 - TUSCANY - Elba Island - Capoliveri (LI) - (Locality about 4 Km far from the village. On the left of the road leading to the iron mine between Mount Calamita and Pareti) - 21-IX-62 - H.P. *Salix alba* v *vitellina* (isolated bushy plant, placed near a very small spring): 2♂♂ dry.
- Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge of the road Sassari-Alghero) - 27-V-64 - H.P. *Salix alba*: ♂♂♀♀ and juveniles not prepared - H.P. *Salix babylonica*: 1♂ 5♀♀ not prepared.

Box 16

GENUS *AUSTROASCA* Lower, 1952*AUSTROASCA vittata* (Lethierry, 1884)

- Typhl. 125 - PIEDMONT - Exilles-Salabertano (TO) - m 1,000 - 5-VII-57 - H.P. *Artemisia absinthium* - (cfr. Typhl. 159) - (as *Empoasca*): 6 ♀ ♀ dry - No ♂ ♂.
- Typhl. 159 - PIEDMONT - Exilles-Salabertano (TO) - 6-VIII-57 - (Cfr. Typhl. 125) - H.P. *Artemisia absinthium* - (as *Kyboasca*): presence of adults of a new generation and of 4th and 5th instar nymphs - ♂ ♂ are remarkably more abundant than ♀ ♀ - I collected 12 ♂ ♂ (8 in alcohol, 4 dry), 6 ♀ ♀ and 8 nymphs (in alcohol). Phot. 4,272: ♂ dorsal; 4,273: last instar nymph; 4,274: tegmen and wing of a ♂.
- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Artemisia absinthium* (right "orographic" side of the National route) - (as *Empoasca*): 1 ♀.
- Typhl. 238 - PIEDMONT - Exilles-Salabertano (TO) - 21-V-58 - H.P. *Artemisia absinthium* - (as *Empoasca*): presence of many juveniles of all instars; but the 4th and 5th instar nymphs prevail. There are also the first adults both ♂ ♂ and ♀ ♀ !! (not preserved) - This species should overwinter in the egg stage in the basal part of the stems that remains green. In these organs one can still see the egg cells and the chorions!!
- Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Artemisia absinthium* (near big *Populus nigra* trees on which *Stomaphis* lives) - (as *Empoasca*): 4 ♂ ♂ 8 ♀ ♀ (in a plastic tube).
- Typhl. 247 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,650 - 17-VI-58 - H.P. *Artemisia absinthium* - (as *Empoasca*): 9 ♂ ♂ (2 dry, 7 in alcohol), 10 ♀ ♀ (2 dry, 8 in alcohol). Also 5th instar nymphs. No individuals parasitized by dryinids!!! - (Cfr. Typhl. 171).
- Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Artemisia absinthium* - (as *Empoasca*): presence of adults and juveniles - (I saw 4th and 5th instar nymphs): 1 ♂ 1 ♀ dry.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - (Rhêmes Valley) - 13-IX-59 - m 1,397 - H.P. *Artemisia absinthium* - (as *Empoasca*): ♂ ♂ ♀ ♀ + neanids and nymphs not prepared.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Artemisia absinthium* - (as *Empoasca*): 2 ♂ ♂ 6 ♀ ♀ + 4 nymphs not prepared.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Artemisia absinthium* - (as *Kyboasca*): 7 ♂ ♂ 14 ♀ ♀ dry - Presence of nymphs too.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste - Noghera - (Old saltworks between Trieste and Muggia) - Day with a strong bora wind! - (as *Kyboasca*) - 3-X-61 - H.P. *Artemisia absinthium*: 2 ♂ ♂ 10 ♀ ♀ + 2 ♂ ♂ and 2 ♀ ♀ parasitized by pipunculids - H.P. *Artemisia vulgaris*: 3 ♂ ♂ 1 ♀ - H.P. *Artemisia annua*: 1 ♀ dry - all together.
- Typhl. 461 - PIEDMONT - Ormea (CN) - 15-VIII-63 - H.P. *Artemisia absinthium* - (as *Kyboasca*): 3 ♂ ♂ 1 ♀ dry.

Typhl. 539 - PIEDMONT - Vinadio (CN) - m 950 ~ - 29-X-64 - H.P. *Artemisia absinthium* - (as *Kyboasca*): 1 ♀ dry.

GENUS *JACOBASCA* Dworakowska, 1972

JACOBASCA lybica (Bergevin & Zanon, 1922)

Typhl. 328 - SARDINIA - Quartu S. Elena (CA) - (Along the road to Muravera) - 12-VI-II-61 - H.P. *Vitis vinifera* - (as *Empoasca*): !!! 2♂♂ 2♀♀ in a plastic tube.

Typhl. 370 - SARDINIA - Cagliari - Quartu S. Elena - 18-X-61 - H.P. *Vitis vinifera* - (as *Empoasca*): 29♂♂ (10 in alcohol, 19 dry), 16♀♀ (6 in alcohol, 10 dry) - Very many adults in the thicker foliage. Presence also of 3rd, 4th, and 5th instar nymphs (in alcohol) - Length of ♂♂ mm 2.7!!! (min 2.5 - max 2.85) - Length of ♀♀ mm 2.9!!! (min 2.7 - max 3.00). Length of last instar nymph mm 2.1 - phot. 9,351-9,353: ♀ length mm 2.9; 9,352-9,354: ♂ length mm 2.7; 9,355: 5th instar nymph length mm 2.1; 9,356: 5th instar nymph + 1st instar neanid length mm 0.85.

Typhl. 371 - SARDINIA - Cagliari - S. Gregorio-S. Priamo - 18-X-61 - (as *Empoasca*) - H.P. *Ulmus campestris* (hedge near vineyards): 1 ♀ dry - H.P. *Pistacia lentiscus*: 1 ♀ dry.

Typhl. 372 - SARDINIA - Cagliari - Muravera - 18-X-61 - H.P. *Althaea officinalis*: 1♂ 1♀ dry.

Typhl. 373 - SARDINIA - Cagliari - Villasimius - 18-X-61 - H.P. *Vitis vinifera* v - (next to almond grove) - (Vineyards near the seaside between Villasimius and Geremias in view of Capo Carbonara): 10♂♂ dry (average length mm 2.7 - min 2.4 - max 2.8), 5♀♀ dry (average length mm 3.0 - min 2.9 - max 3.1).

Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - H.P. *Althaea officinalis* - (as *Empoasca*): 1 ♀ dry.

Typhl. 375 - SARDINIA - Cagliari - La Maddalena - 19-X-61 - H.P. *Vitis vinifera* v (black) (rolled leaves, brown-red-violet) - (as *Empoasca*): 7♂♂ 11♀♀ dry.

Typhl. 440 - SARDINIA - Burcei (CA) - m 740 - 7-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*): 1♂ 1♀ dry.

Typhl. 442 - SARDINIA - S. Gregorio (CA) - 7-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*) (scarcely present): ♂♂♀♀ not prepared.

Typhl. 443 - SARDINIA - Quartu S. Elena (CA) - 7-X-62 - H.P. *Vitis vinifera* (vineyards near the cemetery) - (as *Empoasca*): 12♂♂ 6♀♀ dry (to Prof. A. Servadei, Padua, April 1971) + juveniles of all 5 instars and eggs inserted in the proximal end of the leaf stalk and in the distal end of the most prominent veins. The Nurago grapevines grown as small trees and with a thick foliage are very attacked by *E. lybica*. Less affected are the same grapevines grown with the Guyot system. Many cases of marginal burning and rolling. The red grape cultivars Monica and Cannonau are less affected. - Phot. 10,734, 10,735, 10,736: transversal sections; 10,737, 10,738: longitudinal sections (medium-small leaf of the affected grapevine Nurago); 10,739, 10,740: transversal sections; 10,741, 10,742: longitudinal sections (small vein of the above mentioned leaf); 10,743, 10,744: transversal and longitudinal sections (big vein of the grapevine Nurago); 10,762-10,784: in the field; 10,785-10,807: samples

photographed in the Institute.

- Typhl. 444 - SARDINIA - Maracalagonis (CA) - 7-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*): ♂♂ ♀♀ + juveniles not prepared - Relatively heavy attacks especially on thick foliage grapevines.
- Typhl. 444 bis - SARDINIA - Sinnai (CA) - 7-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*): ! ♂♂ ♀♀ not prepared - Still heavy attacks, but less intense than those recorded in the vineyards close to the seaside of Quartu and S. Elena.
- Typhl. 445 - SICILY - (Leg. dr Sampò) - Marsala (TP) - 9-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*): !! 1♂ 2♀♀ dry.
- Typhl. 447 - SICILY - (Leg. dr Sampò) - Cinisi (PA) - (Near the airport of Punta Raisi) - 11-X-62 - H.P. *Vitis vinifera* - (as *Empoasca*): !! 6♂♂ 7♀♀ dry + juveniles - Leaves characteristically depigmented (collapse of the upper page epidermis, emptying of the palisade, necrosis) - Uncertain etiology (mites? See preparation). Phot. 10,745, 10,746, 10,747: sections.
- Typhl. 467 - SARDINIA - Cagliari - (Gulf of Cagliari) - 24-VIII-63 - (as *Empoasca*) - *Empoasca lybica* scarcely present in vineyards of Sarroch, Q. S. Elena, Sinusei, Calagononis, where it abounded in 1961 and 1962 - Common and infesting instead in vineyards of Solanas and Villasimius, but only damaging the most luxuriant grapevines - Villasimius (CA) - (m 50) - 24-VIII-63 - H.P. grapevine: 6♂♂ 10♀♀ dry. 20 adults reared (*Empoasca lybica* 1) Institute, 25-VIII-63 - Juveniles and adults reared (*Empoasca lybica* 2) Mirafiori, 27-VIII-63.
- Typhl. 534 - ISRAEL - (Leg. dr Harpaz) - Rehovot - 10-X-64 - (as *Empoasca*) - H.P. *Vitis vinifera*: 1♂ dry - Processes and appendages of the pygofer lobes of an unusual shape (**drawing**) - Lydda - H.P. *Gossypium* (cotton): ? 3♀♀ dry.
- Typhl. 644 - THAILANDIA - Bangkok - VI-82 - H.P. *Terminalia catappa* - *Jacobiasca* sp. (prope *J. lybica*): 4♂♂ 3♀♀ (sent by Dworakowska).
- Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano: bianco) - I talked with the wine grower. Present of 6 melons - No symptoms, presence of vegetable crops (melons, tomatoes) - Not found!!! - (Cfr. Typhl. 447, Cinisi, Palermo).
- Typhl. 846 - SARDINIA - Solanas (CA) - 30-IV-86 - H.P. *Vitis* - (as *Empoasca*): 1♂ dry. *Chrysopa formosa*: 1♂.

Box 17

GENUS *KYBOASCA* Zachvatkin, 1953*KYBOASCA bipunctata* (Oshanin, 1871)

- Typhl. 113 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 18-VI-57 - H.P. *Cannabis sativa* - (as *Empoasca*) - 40 individuals: 18♂♂ (15 in alcohol, 3 dry), 22 ♀♀ (18 in alcohol, 4 dry) - phot. 4,064-4,065: hemp leaves; phot. 4,066, 4,069, 4,070, 4,071: ♂; phot. 4,067, 4,068: ♀; phot. 4,072: 5th instar nymph. In alcohol two more 5th instar nymphs with 1♂ having one of the tegmina with an additional transverse vein. Presence of few juveniles, difficult to see and collect because mimetic and jumping suddenly.
- Typhl. 114 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 21-VI-57 - H.P. *Cannabis sativa* - (as *Empoasca*): 23 adults: 7♂♂ 16♀♀ (in a plastic tube) - 2♂♂ 5♀♀ to Dlabola.
- Typhl. 115 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 21-VI-57 - H.P. *Ulmus campestris* - (as *Empoasca*): 1♂ dry - N.B.: near elm trees on which there was *Empoasca* there is hemp.
- Typhl. 116 - PIEDMONT - Ternavasso (TO) - 21-VI-57 - H.P. *Populus tremula* - (as *Empoasca*): 1♀.
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 192) - (as *Empoasca*): 45 adults of which 23♂♂ (3 dry, 10 in a plastic tube, 10 in alcohol), 22♀♀ (3 dry, 10 in a plastic tube, 9 in alcohol) with black spots on the thorax and base of the antennae black - 3 5th instar nymphs in alcohol - Presence of many adults and several 4th and 5th instar nymphs. They should all be individuals of the 2nd generation accomplished on hemp - Very obvious and abundant depigmented areas.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - (Cfr. Typhl. 151) - H.P. *Cannabis sativa* - (as *Empoasca*) - Few ♀ plants remained to produce seed: 1♀ dry.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - 24-IX-57 - H.P. *Ulmus campestris* (topped plants on the right and hedge on the left of the road leading to the pheasant's reserve) - (as *Empoasca*): !!! 1♀ dry.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. hemp - (as *Empoasca*): 12♂♂ 35♀♀ (2♂♂ + 9♀♀ in a plastic tube) - Other adults reared - Presently there are no more neanids and nymphs of the 1st generation - (Last year in the same fields I found the last nymphs on 18-VI) - (Cfr. Typhl. 113): 10♂♂ + 25♀♀ reared on hemp (collected at Cantoira) in the arboretum. 9/10-VII: presence of the first neanids. Egg length mm 0.08 in leaf stalks and main veins - 25-VII: some ♀♀ are still active, reared on 30-VI - 30-VII: first adults emerging - 1-VIII: placed the pot containing hemp beside an *Ulmus campestris* plantlet - 3-VIII: I see

several individuals, above all 5th instar nymphs on the lower page of *Ulmus* leaves - phot. 6,321: mature nymph on hemp leaf; neanids and nymphs in alcohol - phot. 6,322: depigmented leaf.

Typhl. 575 - PIEDMONT - Turin - 25-V-68 - H.P. *Ulmus* sp. (Siberian, Ansaloni): 4♂♂ 6♀♀ dry - Adults reared from nymphs present in great numbers on the high part of the canopy of *Ulmus* of the tree row of Corso Dante. Nymphs collected by dr Currado on vegetation placed on the ground, after pruning, on 18-V-68.

BOXES 18-19

GENUS *CHLORITA* Fieber, 1872

CHLORITA beieri Dlabola, 1955

Typhl. 351 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Karstic zone) - 1-X-61 - H.P. *Artemisia abrotanum*! - Marchesetti in "Flora di Trieste e di suoi dintorni", 1896-97, p. 301, mentions that it was not found anymore by anybody after Scopoli's and Wulpen's notes - (*Chlorita* sp.): 1♀ dry.

Typhl. 355 - FRIULI-VENEZIA GIULIA - Trieste - Borgo Grotta Gigante - (Karstic zone relatively flat. Not far from the airfield) - 1-X-61 - H.P. *Satureja montana* v *communis* (among rocks, along country roads): 6♂♂ (2 in alcohol, 4 dry), 6♀♀ (1 in alcohol, 5, of which 4 parasitized by *Aphelopus*, dry) - Length of ♂♂ mm 2.6-3 - Length of ♀♀ mm 2.8-3.10 - phot. 3,297: ♂ length 2.6; 3,296: ♀ mm 3 - (Cfr. Typhl. 356). **Drawings** of the aedeagus.

Typhl. 356 - FRIULI-VENEZIA GIULIA - Gorizia - (5 Km out of the city, on the left of the road Gorizia-Gradisca) - Arid heading - 2-X-61 - H.P. *Satureja montana* v *variegata*: 2♂♂ 1♀ dry. Length of ♂♂ mm 2.7; ♀♀ mm 3.9 - (Cfr. Typhl. 355) - N.B.: the *Satureja* plantlets on which the 3 specimens were collected (and on which several others were seen) were just 1 m far from thyme "cushions" hosting *Chlorita* II n.sp. mentioned above (?*dumosa*, editor's note) - Genital blades of the ♂♂ longer in *Chlorita* I (*beieri*, editor's note) than in *Chlorita* II (*dumosa*, editor's note) - ♂♂ of both species not intense green like in ♀♀, but yellowish green - See also Dlabola 1961: Cas. Cesk. Spol. Ent. 58, p. 321 (figs. *Empoasca prasina* Fieber and *E. mendaz* Ribaut).

Typhl. 513 - ABRUZZO - Assergi (AQ) - 16-VIII-64 - H.P. *Satureja montana* v *variegata* (On the side of the road to L'Aquila, near Assergi): 9♂♂ 5♀♀ dry (♂♂ and ♀♀ parasitized by dryinids) - Presence of nymphs - Species abundantly present.

Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Satureja montana* v *variegata*: 1♂ 2♀♀ dry - Species poorly present.

Typhl. 523 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 800-1,000 - 3-IX-64 - H.P. *Satureja montana* (according to Ariello: *S. graeca* v *consentina*): 6♂♂ 8♀♀ dry.

Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*,

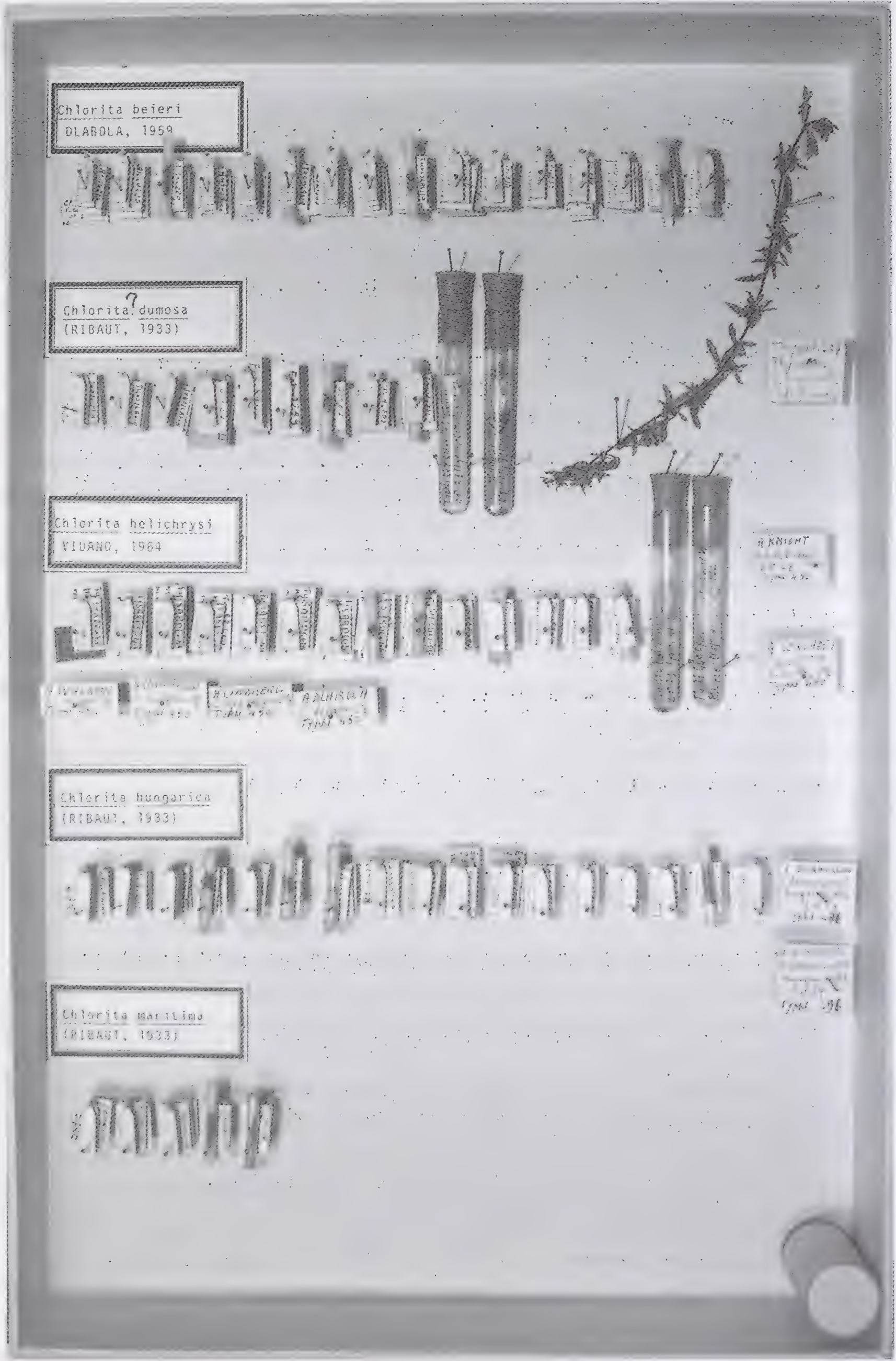


Fig. 5 - Box no. 18 - *Chlorita* spp.

- etc. - Beginning of the North slope of Dinara Planina - Dolinas, etc. - m 900 - very sunny karstic zone, with low *Quercus* shrubs - 2-3 Km downstream of Vaganj towards Sinj - H.P. *Satureja graeca* v *consentina*: ♂ ♂ ♀ ♀ not prepared (2♂ ♂ dry).
 Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - H.P. *Satureja montana*: 3♂ ♂ 1♀ dry.
 Typhl. 530 - JUGOSLAVIJA - Montenegro - Titograd - Airfield - 8-IX-64 - H.P. *Satureja juliana*: 7♂ ♂ 4♀ ♀ dry - (1♂ parasitized by *Aphelopus*). Lake of Scutari, near Virpazar (Skadarko Jezero).

CHLORITA dumosa (Ribaut, 1933)

- Typhl. 356 - FRIULI-VENEZIA GIULIA - Gorizia - (5 Km out of the city, on the left of the road Gorizia-Gradisca) - 2-X-61 - Arid heading - H.P. *Thymus serpyllum* - *Chlorita* II n.sp. (prope *C. dumosa*): 3♂ ♂ (1 in alcohol, 2 dry), 16♀ ♀ (3 in alcohol, 13 dry) - (Cfr. Typhl. 507) - Length of ♂ ♂ mm 2.3-2.7 - Length of ♀ ♀ mm 2.5-2.9 - phot. 9,299: ♂ mm 2.40; 9,298: ♀ mm 2.55 - **Drawings**.
 Typhl. 507 - EMILIA-ROMAGNA - Gualdo (FC) - (Hamlet of Meldola) - Bed of the stream Bidente - 15-VIII-64 - H.P. *Thymus serpyllum* v ?*longicaulis*: ? 3♂ ♂ (1 in alcohol), 19♀ ♀ (3 in alcohol) - (Cfr. Typhl. 356 and 528) - **Drawings**.
 Typhl. 528 - JUGOSLAVIJA - Kotor - 6-IX-64 - Wild slope West of the town - m 50-100 - H.P. *Thymus serpyllum* v *longicaulis*: ? 6♂ ♂ 4♀ ♀ (2♂ ♂ 1♀ in alcohol) - Length of ♂ ♂ mm 2.1-2.4 - Length of ♀ ♀ mm 2.2-2.6 - (Cfr. Typhl. 356, 507, 572) - Cfr. *Ch. szelenica* Dlabola 1967!!! - Aedeagus and relative processes of another specimen, not drawn but prepared dry, exactly like in the specimen of Typhl. 507; but in that of Typhl. 528 they are crossed distally - **Drawings**.
 Typhl. 557 - TRENTINO-ALTO ADIGE - Montagna (BZ) - (Last curve of the road Ora-Cavalese) - m 500 - 22-VIII-66 - H.P. *Thymus serpyllum*: I collected several adults, then I lost the glass tube!
 Typhl. 572 - JUGOSLAVIJA - Serbia - Suva Planina, locality Konjarnik (it is not a village) - m 800-900 - 30-V-67 - The locality Konjarnik, about 40 km far from Niš, is on the right orographic slope of the stream Kutina (Kutinska Reka). You get there through a narrow valley, from the village of Dušnik. Karstic zone with *Quercus*, *Carpinus* (or *Ostrya*?), *Acer campestre*, *Fagus* (rare), *Syringa vulgaris*!, *Crataegus*, etc. - H.P. *Thymus serpyllum* v *angustifolius* - *Chlorita* n.sp.? (gr. *mendax*?): 1♂ 4♀ ♀ dry - (Cfr. Typhl. 356, 507, 528, 573 - !Cfr. *Ch. szelenica* Dlabola, 1967) - **Drawings** and map.
 Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka - 15 Km from Niš on the left of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - Karstic locality, rich of *Salvia officinalis* - H.P. *Thymus serpyllum* v *angustifolius* - *Chlorita* sp. (*mendax* group): 1♂ 5♀ ♀ dry (♂ not yet examined) - (Cfr. Typhl. 572).

CHLORITA helichrysi Vidano, 1964

- Typhl. 440 - SARDINIA - Burcei (CA) - m 740 - 7-X-62 - H.P. *Helichrysum italicum* v *microphyllum* (det. Ariello by comparison!!!) - Rocky relief, height m 800 - West of the village along the road leading up to Mount Serpeddi - This botanical species is represented by completely dry tufts, by tufts with dry inflorescences but with many growing stems, and by young completely green luxuriant tufts (silvery ash green) - *Chlorita helichrysi* n.sp. represented by ♂♂, ♀♀, and juvenile stages of different instars: 16♂♂ 20♀♀ (of which 3♂♂ 4♀♀ in alcohol) - 3 nymphs + exuviae in alcohol - Length of ♂♂ mm 1.8-2.1; ♀♀ mm 1.9-2.2; 5th instar nymphs mm 1.6-2.0 - Related to *Ch. nervosa* (Fieber) Ribaut 1936 and *Ch. antoniana* Dlabola, 1959 - phot. 10,808: ♂ dorsal; 10,809: ♂ lateral, length mm 2; 10,810: ♀ dorsal; 10,811: ♀ lateral mm 2.1 - *Ch. helichrysi* has elytra infumate distally and provided with (in many specimens: 80% approx.) 1 or 2 supplementary transverse veins involving the subcostal cell behind the wax area or even at its level, like in *Polineuroseus minuscola* (cfr. Typhl. 405 ?*multinervia*, editor's note): 10♂♂ in a row, length mm 20; 10♀♀ in a row, length mm 21.5 - **Drawings**. N.B.: on *Lavandula stoechas* (mixed with *Helichrysum microphyllum*) no leafhopper.
- Typhl. 442 - SARDINIA - S. Gregorio (CA) - 7-X-62 - H.P. *Helichrysum italicum microphyllum*: 2♂♂ 1♀ dry - (Cfr. Typhl. 440).
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Windy) - H.P. *Helichrysum italicum microphyllum*: 8♂♂ 14♀♀ dry - Length of 5♂♂ mm 11 (min. 2; max. 2.2) - Length of 5♀♀ mm 12.5 (min. 2.2; max. 2.5) - 1♂ and 1♀ parasitized by dryinids - Basic colour light green, elytra greenish yellow, but whitish in correspondance with the veins and infumate distally.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - H.P. *Helichrysum italicum microphyllum*: 2♂♂ 5♀♀ dry. (1♂ and 1♀ sent to dr Knight).
- Typhl. 492 - SARDINIA - Mamoiada (NU) - m 800 - 31-V-64 - H.P. *Helichrysum italicum microphyllum*: 2♂♂ 10♀♀ dry.

CHLORITA maritima (Ribaut, 1933)

- Typhl. 452 - FRANCE - Sète (Hérault) - 5-V-63 - H.P. *Artemisia caerulescens* v *cretacea* (= *Artemisia maritima* Bert) - (Cfr. Typhl. 470) - Northward slope along the national route, in the town of Sète, towards Frontignan: 13♂♂ 24♀♀ + 2 nymphs dry - phot. 11,389: ♀ dorsal, length mm 2.2; 11,390: ♀ lateral on *Artemisia* length mm 2.2; 11,391: ♂ dorsal, length mm 2.0; 11,391 bis: ♂ lateral (only colour) - 2♀♀ are parasitized each one by a brown mite with long red legs. The mite's mouthparts are fixed between head and pronotum. Both parasitized leafhoppers are yellowish instead of green. Dry with two more specimens - Length of 10♂♂ mm 20! - Length of 10♀♀ mm 22! - **Drawings** - *Artemisia maritima* Bert (1853) = *Artemisia caerulescens* L. v *cretacea* Fiori (1903) - (Endemism) - Bologna province, along the Setta and at Frassineto, Cesenate, and Sogliano, Forlì district, and Tuscany in

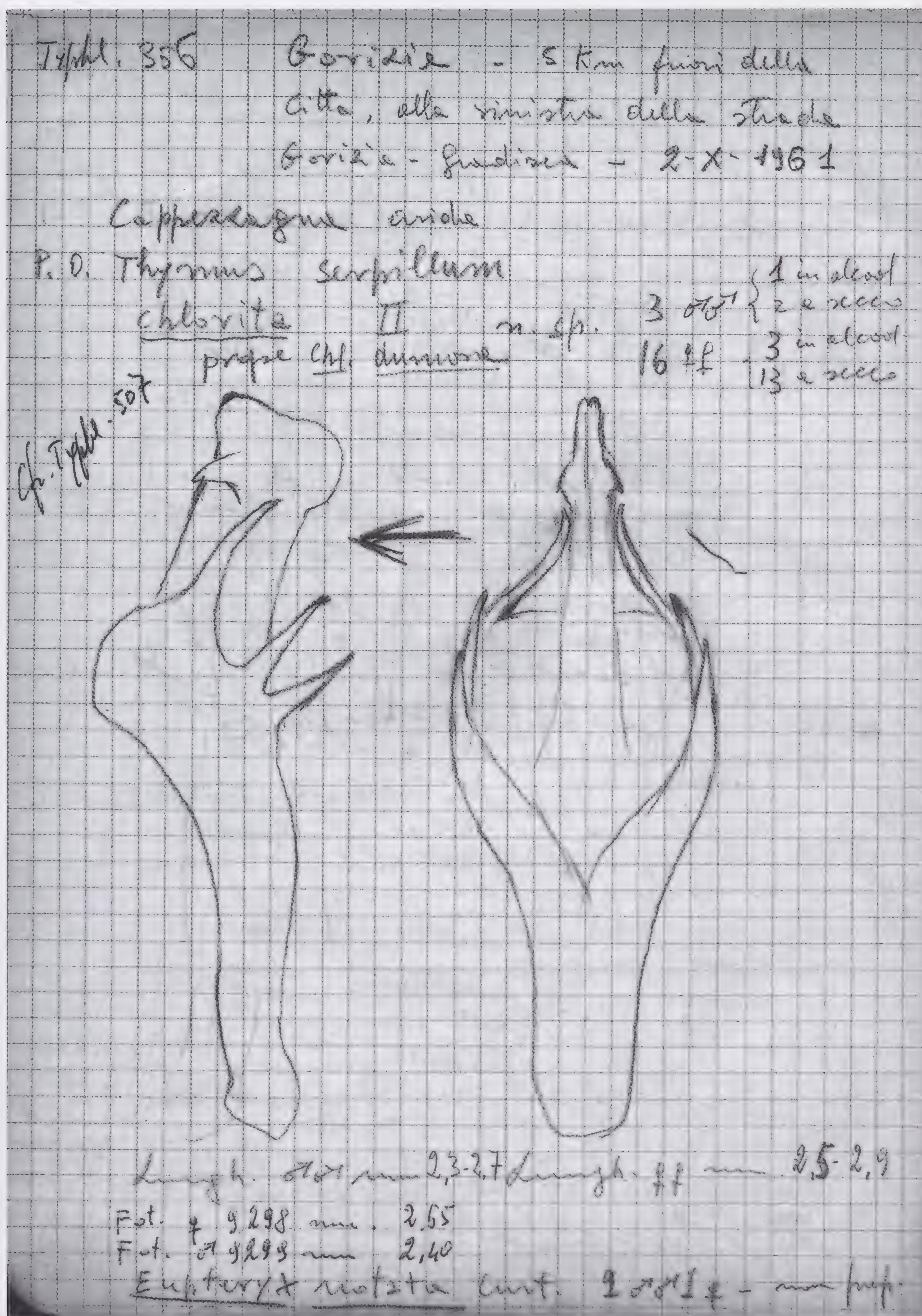


Fig. 6 - A notebook page with the sketches of the genitalia of *Chlorita* II n. sp.

the cretes of the Siena province (where it is abundant), San Miniato and Volterra. *A. caerulescens* (salty and clayey sites) (Portugal, Spain, South France, Croatia, Dalmatia; sea absynth).

Typhl. 470 - FRANCE - Sète (Herault) - 31-VIII-63 - H.P. *Artemisia caerulescens* - (Cfr. Typhl. 452): 5♂♂ 6♀♀ dry and juveniles - Only on plants sheltered from winds by rocks exposed to the sun. None along the windy shore.

CHLORITA mendax (Ribaut, 1933)

Typhl. 420 - LIGURIA - Passo di Tegli (IM) - m 1,387! - 14-IX-62 - H.P. *Artemisia alba* (det. Ariello): ? 2♂♂ 16♀♀ dry (+ 2 5th instar nymphs - 1♂ parasitized by pipunculids) - (Cfr. Typhl. 423, 461, 462) - **Drawings**.

Typhl. 423 - LIGURIA - (Cfr. Typhl. 504) - Carpe (SV) - (Sella di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - 16-IX-62 - (Karstic zone!) - H.P. *Artemisia alba* = *A. camphorata* - !!!? or n.sp.: 9♂♂ 9♀♀ dry + juveniles - Related also to *Ch. prasina* Fieber, 1884 (Dlabola, 1961) - phot. 10,375: ♂ length mm 2.3 - (Cfr. Typhl. 420, 461, 462) - **Drawings**.

Typhl. 461 - PIEDMONT - Ormea (CN) - 15-VIII-63 - H.P. *Artemisia alba* (= *camphorata*): 2♂♂ 6♀♀ dry - Among the specimens of the different populations I saw, those of Typhl. 461 are closer to *Ch. mendax* Ribaut - (Cfr. Typhl. 420, 423, 462) - **Drawings**. N.B.: on *Satureja montana* no Typhlocybiidae.

Typhl. 462 - LIGURIA - Passo di Tegli (IM) - (Pylon) - m 1,400 - 15-VIII-63 - H.P. *Artemisia alba* (= *camphorata*): ? 16♂♂ 11♀♀ dry (4♂♂ 3♀♀ parasitized by dryinids) - The processes of the aedeagus are bifid! - phot. 11,759: ♂ (mm 2.7); 11,760: ♀ (mm 3) - (Cfr. Typhl. 420, 423, 461).

Typhl. 504 - LIGURIA - (Cfr. Typhl. 423) - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - about m 600 - ("Belvedere") - 6-VIII-64 - H.P. *Artemisia alba*: ? 2♀♀ dry.

CHLORITA multinervia Vidano, 1964 (Fig. 9)

Typhl. 405 - SARDINIA - Supramonte - Mount Corrasi, near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Santolina chamaecyparissus*! - *Chlorita multinervia* Vidano (n.sp.): 3♂♂ 23♀♀ dry + 1♂ holotypus + 1♀ allotypus + 15♂♂ paratypi + 15♀♀ paratypi - Particularly abundant in the thicker tufts, both at the end of the road (at the height of m 1,250) and in the karstic highland (at a height of m 1,400) (where also *Ephippiger coronata* Costa was found). Presence also of all instar juvenile stages (1♂ reared from a 5th instar nymph: dry) - phot. 10,305: ♀ length mm 2.2; 10,306: ♀ mm 2.5; 10,307: ♀ lateral mm 2.5; 10,308: ♀ lateral (less magnified) - Length of ♂♂ mm 2.1-2.6; length of ♀♀ mm 2.2-2.6. (Cfr. *Chlorita zeravschnica*: Dlabola, 1961 - Acta Ent. Mus. Nat. Praga, XXIV, p. 304).

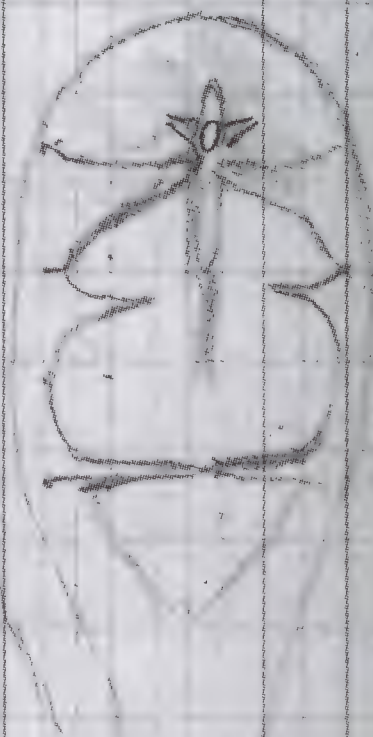
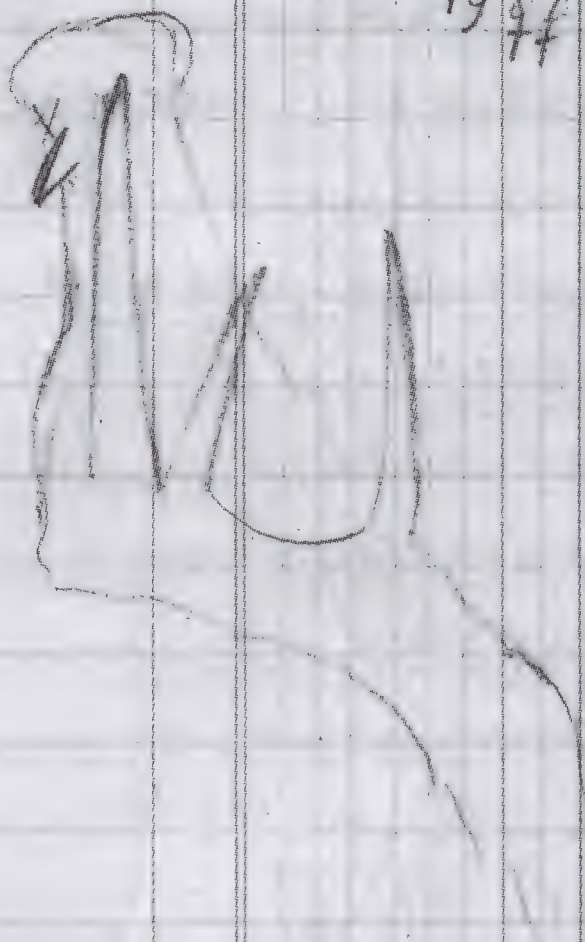
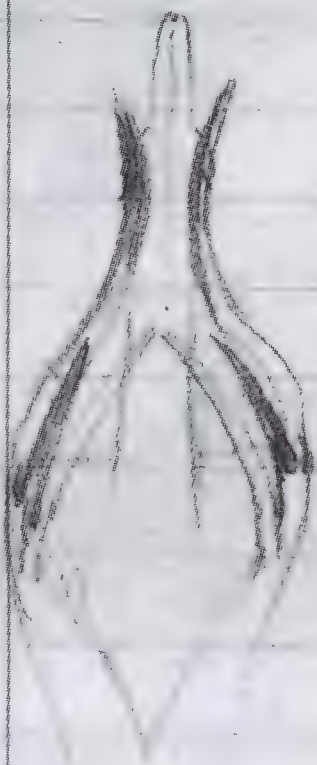
Typhl. 489 - SARDINIA - Mount Corrasi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Santolina chamaecyparissus* (m 1,000-1,300): 10♂♂ 10♀♀ in alcohol - Many ♂♂ and ♀♀ dry (at the height of m 1,000-1,100 only adults, at the height of m 1,300 almost only nymphs) - phot. 12,588-12,593: *Santolina chamaecyparissus* - (Cfr. Typhl. 405) - Hemiptera Heteroptera and Homoptera dry.

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continuazione Typhl. 507

Collygipone sp. 50707 15 ff - a nudo

(2 ff brachitture e 13 minutu)

P.O. Thymus serpyllorum v. ? longicaulisfr Typhl. 356 Chlorita ? dumosa Rib. 30707 (1 in alcool)
528 19 ff (3 in alcool)P.O. Salix purpureaKybos rufescens Mel. 107 10 ff, a nudoFlammiferoidia discolor Hor. 107 1 ff, a nudoPlatymetopius major Klm 107 a nudoP.O. Tenerium chamaedrisDicranura multicaule Boh. 807 eff. min ppsP.O. Dorycnium suffruticosumcon foglie deformate, probabilmente
di Flammiferoidia dorycnii Rib.Fig. 7 - A notebook page with the sketches of the genitalia of *Chlorita ? dumosa* Ribaut

CHLORITA nervosa Fieber, 1884

Typhl. 470 - FRANCE - Sète (Herault) - 31-VIII-63 - H.P. *Artemisia ?campestris*: 3♂♂ 3♀♀ dry + juveniles - (Dune area towards Agde).

CHLORITA santolinae (Ribaut, 1936)

Typhl. 454 - FRANCE - Cavalière (Var) - (Locality halfway between St. Raphail and Toulon) - 6-V-63 - H.P. *Santolina chamaecyparissus*: 2♂♂ 2♀♀, 1 nymph dry - Presence of many 4th and 5th instar nymphs and few adults (2♂♂ 3♀♀) on wild plants (strong and unpruned shrubs). Reared nymphs left on *Santolina* - phot. 11,392: ♂ dorsal, length mm 2.2; 11,393: ♂ lateral, length mm 2.2; 11,394: ♀ dorsal, length mm 2.5; 11,395: ♀ lateral, length mm 2.5; 11,396: 5th instar nymph, length mm 2.0 - 16-V-63: I checked the reared specimens; 12♂♂ 14♀♀, 1 nymph in alcohol - Length of 10♂♂ cm 2.2 (min. length mm 2.0; max mm 2.3) - Length of 10♀♀ cm 2.5 (min length mm 2.2; max mm 2.6).

Typhl. 968 - FRANCE - Pognadoresse (Gard) - 7-VII-89 - H.P. *Santolina* (flower borders near the restaurant "Au fou du Roi"): 43♂♂ 53♀♀ - 6♂♂ 5♀♀ dryinidized (dead) - + 1♂ 2♀♀ dryinidized (reared).

CHLORITA tamaninii Wagner, 1959

Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with shrubs of various broadleaves, 6-7 m high in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment) - H.P. *Achillea millefolium* (along the escarpment of the national route at about 100 metres from the two other *Chlorita* mentioned above) (*beieri* and *dumosa*, cfr. Typhl. 356, editor's note): !!! 1♂ 3♀♀ dry.

Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - (Near the spring upstream of the Sanatorium Agnelli) - 24-VII-64 - H.P. *Artemisia campestris*: 1♂ dry.

CHLORITA tessellata Lethierry, 1884

Typhl. 157 - PIEDMONT - S. Giorio-Bussoleno (TO) (Susa Valley) - 6-VIII-57 - H.P. *Artemisia campestris* - (as *Empoasca*): 7♂♂ (3 dry, 4 in alcohol), 11♀♀ (6 dry, 5 in alcohol), 10 nymphs in alcohol - In alcohol in a separate glass tube, with 5 1st instar neanids and some exuviae, 2 small Chalcidoidea (?oophagous) emerged on 8-VIII in a glass tube containing *Artemisia campestris* vegetation - phot. 4,265: ♀ dorsal; 4,266: last instar nymph; 4,267: tegmen and wing of ♀.

Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Artemisia campestris* (young plants, on the headings of a polyphyte meadow) - (as *Empoasca* gr. *tessellata*): 1♂ dry.

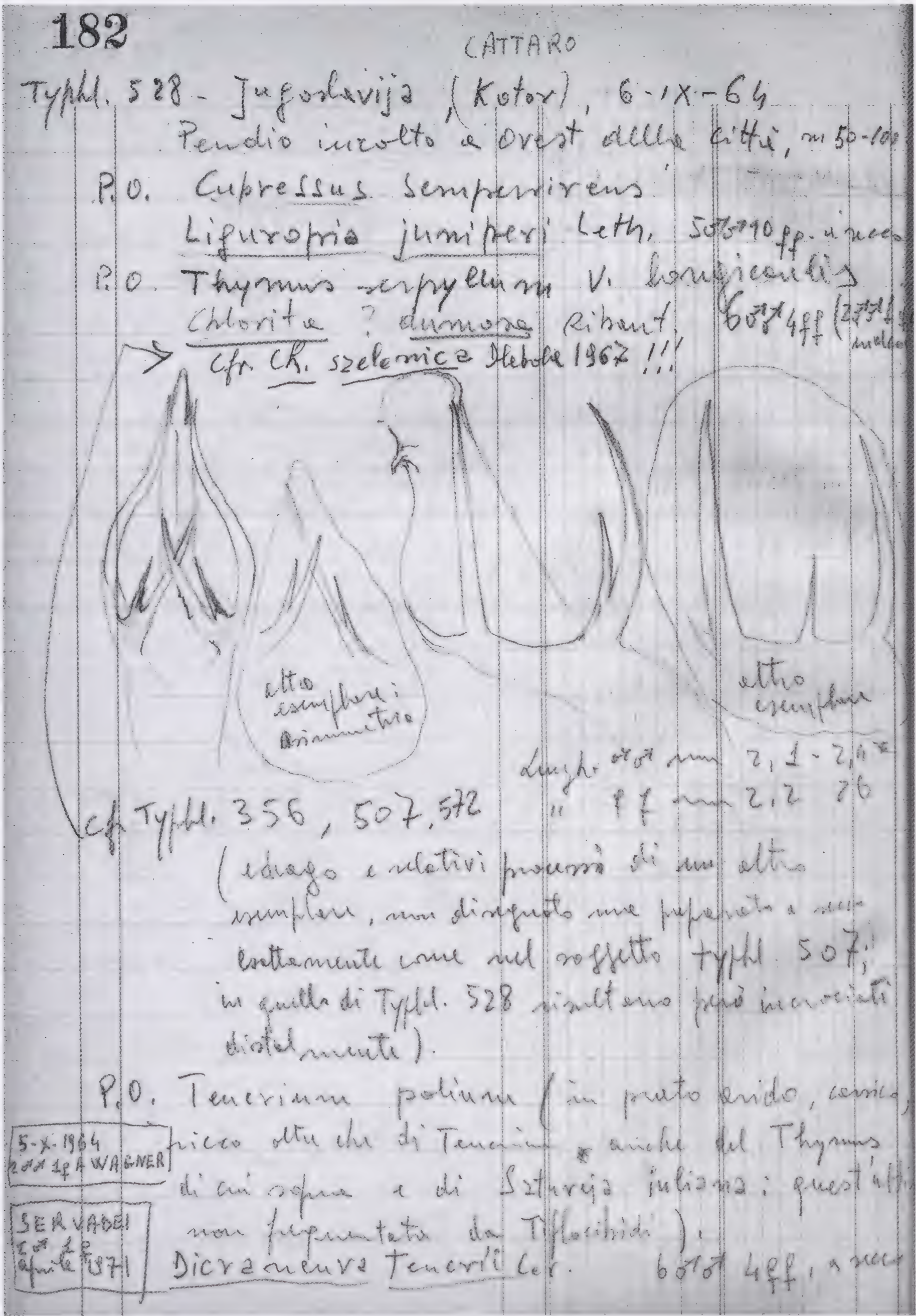
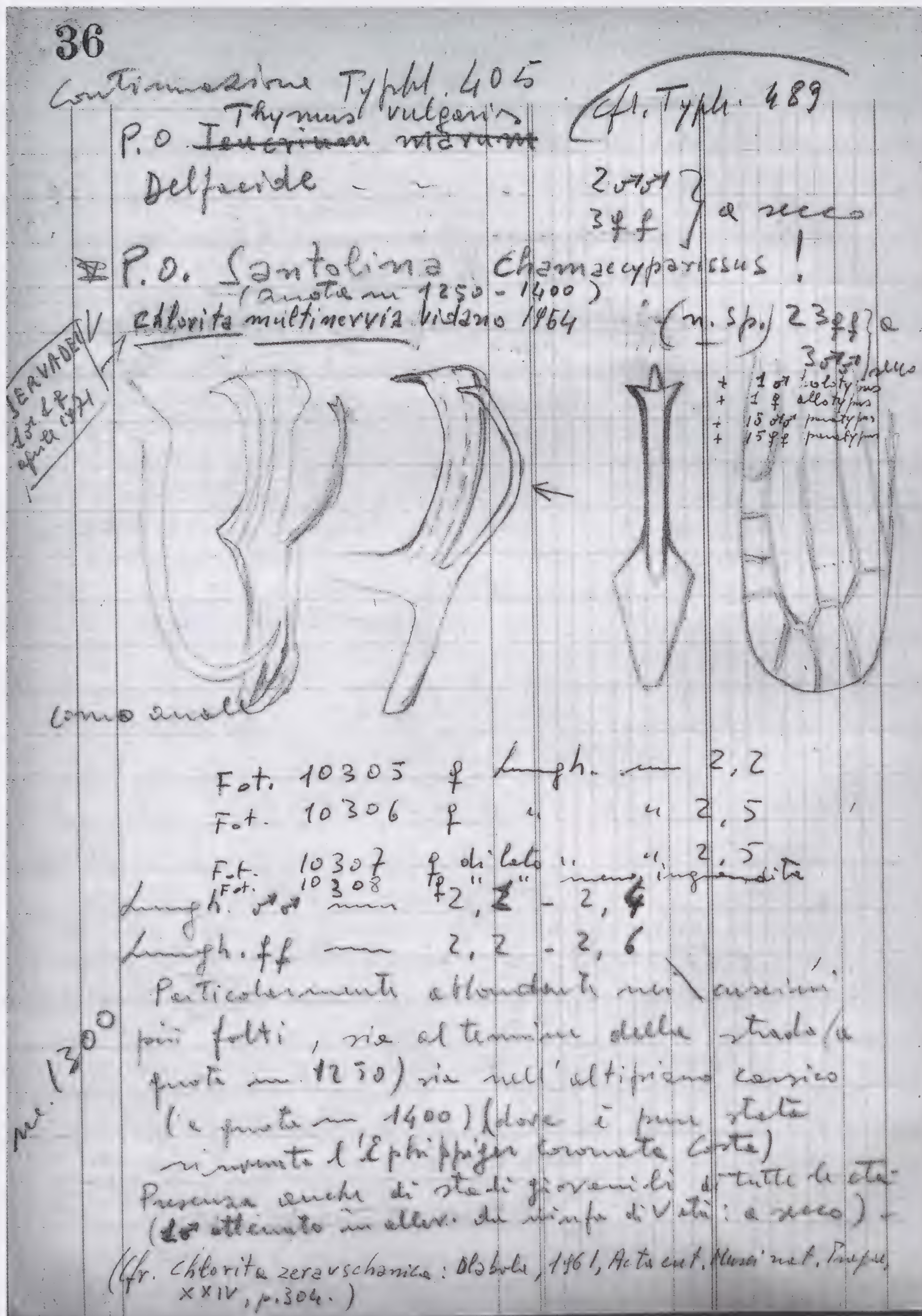


Fig. 8 - A notebook page with the sketches of the genitalia of *Chlorita ?dumosa* Ribaut

CHLORITA viridula (Fallén, 1806)

- Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Artemisia japonica*, *A. camphorata*, *A. pontica* - (as *Empoasca* = *subulata* Ribaut) - Several adults: 5♂♂ 5♀♀ dry - Some ♂♂♀♀ and 1 nymph in alcohol - On *A. absinthium*, *A. abrotanum*, *A. annua* this species is missing.
- Typhl. 198 - PIEDMONT - Stupinigi (TO) - (Sangone stream) - 24-IX-57 - (as *Empoasca* = *subulata* Ribaut) - H.P. *Tanacetum vulgare*: 7♂♂ (3 dry, 4 in alcohol), 5♀♀ (2 dry, 3 in alcohol) - H.P. *Artemisia vulgaris*: 2♂♂ 1♀ dry.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - (as *Empoasca* = *subulata* Ribaut) - H.P. *Achillea millefolium*; I = luxuriant vegetation: 1♂ 7♀♀ dry - H.P. *Chrysanthemum* (*Tanacetum*) *vulgare* (basal leaves): 1♂ 1♀ dry. Phot. 4,415: ♂.
- Typhl. 217 - PIEDMONT - Chialamberto (TO) - (Forno Alpi Graie Valley) - (Lanzo valleys) - 10-X-57 - Arid wasteland, in the middle of rocks, on the left orographic side of the road, between Chialamberto and Magliere - (as *Empoasca* = *subulata* Ribaut) - H.P. *Artemisia campestris*: presence of several adults: 3♂♂ (1 dry, 2 in a plastic tube), 13♀♀ (5 dry, 8 in a plastic tube) - H.P. *Achillea millefolium* - Presence of few adults: 3♂♂ dry.
- Typhl. 237 - PIEDMONT - Bussoleno (TO) - (Military road) - 21-V-58 - (as *Empoasca* = *subulata*) - H.P. *Artemisia campestris*: presence of plenty adults - Of 30 collected specimens 8 are ♂♂ (4 dry) 22 are ♀♀ (2 dry) - The ♀♀ have well developed eggs (from 6 to 8 per ♀). There are no neanids and nymphs. Several adults are reared because parasitized by pipunculids - The mature pipunculid larvae are green like the victim and emerge opening a wide hole between the intersegmental membrane of the 2nd-3rd urotergum - 1♂ in a plastic tube. These *Empoasca* (also *hungarica* Ribaut, editor's note) should overwinter as eggs. All present adults should be therefore of the first generation - Rearing Typhl. 237; on 10-VI-58: 3 pipunculids emerged; phot. 4,822-4,823: puparium; 4,852: adult dorsal. 2 adults prepared dry and their puparia put in a plastic tube. An adult in alcohol with its puparium and with another intact puparium: *Chalarus spurius* Fallén (det. Venturi, 1960) - Remained in Pisa! - 15-VI-58: emergence of the 4th pipunculid. In alcohol with the previous one - 25-VII-58: 2 puparia are put in alcohol with the previous material. Undid the rearing - (Cfr. Typhl. 252).
- Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Artemisia absinthium* (near big *Populus nigra* trees on which *Stomaphis* lives) - (as *Empoasca*) - (= *subulata*): 4♂♂ 6♀♀ not prepared.
- Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. *Artemisia campestris* - (as *Empoasca* = *subulata* Ribaut): 8♂♂ 8♀♀ in alcohol + 1 larva and 1 puparium of a pipunculid - At least 3♀♀ have the pipunculid larva in their body. Phot. 4,961-4,965: ♂ + larva + puparium of the pipunculid - They should be 2nd generation larvae - (Cfr. Typhl. 237) - At that time we were at the end of the 1st generation, considering the difference between ♂♂ and ♀♀.
- Typhl. 262 - PIEDMONT - Turin - Mirafiori (Centro Meccanico Agricolo) - 9-VIII-58 -

Fig. 9 - A notebook page with the sketches of the genitalia and wing of *Chlorita multinervia* Vidano

- H.P. *Achillea millefolium* (basal leaves) - (as *Empoasca*) (= *subulata* Ribaut): ♂♂ ♀♀ not prepared.
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Noasca-Ceresole (TO) - (Orco Valley) - 9-IX-59 - (Curves) - m 1,200-1,300 - (as *Empoasca*) - H.P. *Artemisia campestris*: 1♂ 3♀ ♀ not prepared - H.P. *Achillea millefolium*: 1♂ 2♀ ♀ not prepared.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Artemisia campestris* (young plants on the heading of a polyphyte meadow) - (as *Empoasca*) (= *subulata*): 16♂♂ 14♀♀ dry.
- Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, a little before the town, on the left of the road, arriving from Ceva) - 14-IX-62 - H.P. *Chrysanthemum* (*Tanacetum*) *vulgare* - (= *subulata*): ? 1♀ dry.
- Typhl. 451 - FRANCE - Agde (Hérault) - (Thicket along the seaside) - (= *subulata* Ribaut) - 5-V-63 - H.P. *Artemisia* ?*maritima* (or *campestris*?): ? 2♀♀ dry (certainly not *C. maritima*) - Pea green - Length mm 3.
- Typhl. 544 - PIEDMONT - Sestriere (TO) - (Slope of Cesana) - m 1,900 - 19-VIII-66 - H.P. *Achillea millefolium*: 10♂♂ 13♀♀ dry - 6♂♂ 5♀♀ parasitized by *Aphelopus*.
- Typhl. 552 - TRENTINO-ALTO ADIGE - Mezzana (TN) - (Val di Sole) - m 900 - 22-VIII-66 - H.P. *Artemisia campestris*: 3♂♂ 4♀♀ dry.
- Typhl. 565 - JUGOSLAVIJA - Sveta Petka - Kutina (Hrvatska) - Locality 12-15 Km from Kutina - 1-IX-66 - H.P. *Achillea millefolium*: ? 1♀ dry.
- Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing near patches of *Calluna vulgaris* and on the margin of birch and chestnut woods) - H.P. *Achillea millefolium* (under birch): 3♀♀ not prepared.
- Typhl. 782 - PIEDMONT - Melle (CN) - (Prof. Basoccu's home) - m 700 - 15-VII-85 - H.P. *Artemisia campestris*: 1♂ 4♀♀.

GENUS *EREMOCHLORITA* Zachvatkin, 1946

EREMOCHLORITA hungarica (Ribaut, 1933)

- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Artemisia campestris* - (as *Empoasca*): 4♂♂ 2♀♀ dry.
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - Small hills in the middle of the valley - 8-X-57 - (as *Empoasca*) - H.P. *Artemisia campestris*: 2♂♂ 3♀♀ dry - Currently the adults are not on caulinar leaves, but on the basal ones. Presence of juveniles (difficult to find) including 1st instar neanids.
- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - (as *Empoasca*) - H.P. *Artemisia campestris* (side of the national route): 11♂♂ (3 dry, 4 in alcohol, 4 in a plastic tube), 22♀♀ (6 dry, 8 in alcohol, 8 in a plastic tube), 2 nymphs in alcohol - Among basal leaves.
- Typhl. 214 - PIEDMONT - Ulzio (TO) - (Dora Riparia Valley) - (Downstream, 1 Km outside the town, along the stream and the national route) - 8-X-57 - (as *Empoasca*) -

H.P. *Artemisia campestris* (basal leaves, near the side of the national route): 4♂♂ (1 dry, 3 in a plastic tube), 12♀♀ (4 dry, 8 in a plastic tube) - 1 of the ♀♀ is parasitized by a larva of *Aphelopus*.

Typhl. 237 - PIEDMONT - Bussoleno (TO) - (Military road) - 21-V-58 - (as *Empoasca*) - H.P. *Artemisia campestris*: 1♂ (dry), 1♀ emptied by a pipunculid, dry in a plastic tube - These *Empoasca* (also *viridula*, editor's note) should overwinter in the egg stage. All present adults should be therefore of the first generation.

Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Artemisia absinthium* - (as *Empoasca*): 2♂♂ dry.

Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Day of strong wind) - 5-X-63 - H.P. *Teucrium chamaedrys*, *Parietaria*, *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - North and at the base of rocks sheltering more or less considerably the vegetation beneath: ? 1♀ dry (coming from nearby *Artemisia campestris*).

Typhl. 496 - PIEDMONT - S. Giorio (TO) - 16-VI-64 - H.P. *Artemisia campestris*: 15♂♂ 17♀♀ dry + juveniles.

Typhl. 918 - AOSTA VALLEY - Mandolla-Nus (AO) - m 700 - 30-VI-88 - H.P. *Artemisia campestris* - (as *Chlorita*): 2♀♀ dry - (Det. dr Alma).

Box 20

Tribe TYPHLOCYBINI Kirschbaum, 1868

GENUS *FAGOCYBA* Dlabola, 1958

FAGOCYBA alnisuga Arzone, 1976

Typhl. 598 - PIEDMONT - Forno di Coazze (TO) - m 950 - 14-IX-80 - H.P. *Alnus glutinosa*: 1♂ dry - No ♀♀.

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic rocks. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos* along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Ostrya carpinifolia*: 1♂ dry (on a shaded plant along the stream Tanaro) - H.P. *Alnus incana*: 1♂ dry.

FAGOCYBA cruenta (Herrich-Schäffer, 1838)

Typhl. 22 - PIEDMONT - Meana (TO) - (road of Colle delle Finestre at a height of m 1,000) - 17-X-55 - H.P. beech - (as *Typhlocyba cruenta* var *Douglasi* Edwards) - I collected 20 individuals of which 11♂♂ and 9♀♀ - 3♂♂ and 2♀♀ are parasitized by dryinids. One of the dryinid larvae cocooned on a beech leaf - Reared. In alcohol 5♂♂ and 4♀♀ - Body basically yellowish, wings sulphur yellow proximally, infumate distally. Male and female dorsal genital valvae brown proximally.

Typhl. 115 - PIEDMONT - Carignano-Salsasio (TO) - Bridge on the Po - On the right of the road Carignano-Carmagnola - 21-VI-57 - H.P. *Ulmus campestris* - (as *Typhlocyba cruenta* var *Douglasi*): 3♂♂ dry.

- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - 12-IX-59 - Locality between Ruinaux and Fénille - m 1,120 - (as *Typhlocyba* var *douglasi*) - H.P. *Corylus avellana*: 2♂♂ - H.P. *Tilia platyphyllos*: ♂♂ ♀♀ and many juveniles (neanids and nymphs, as well as eggs in the main and secondary veins) not prepared.
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - m 1,028 - (as *Typhlocyba*) - 21-IX-59 - H.P. *Fagus sylvatica*: many ♂♂ ♀♀ not prepared - Finale Ligure (SV) - (road of Colle di Melogno) - m 600 - H.P. *Castanea*: ♂♂ ♀♀ all not prepared.
- Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - (as *Fagocyba cruenta* var *Douglasi*) - H.P. *Betula alba*: 12♂♂ 8♀♀ dry - Emerged from reared nymphs with a curved aedeagus (**drawing**) - Strong seta at the base of the genital blade - !! 24/31-V other 6♂♂ 10♀♀ emerged, not preserved - H.P. *Euonymus Thunbergi* - !! not preserved: ♂♂ and ♀♀ adults reared from nymphs. The *Euonymus* plants are under the birches mentioned above. However the depigmented *Euonymus* leaves are many - Near the birches there are two big *Fagus sylvatica* the leaves of which (of low branches) are not infested by *Fagocyba*.
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica (CS), near the lake Arvo - Mazzei Giuseppe's house (Bandit Grimoli) - m 1,400 - 8/9-VII-61 - (as *Fagocyba cruenta* var *Douglasi*): 9♂♂ 25♀♀ dry - H.P. *Prunus domestica*: 5♂♂ 15♀♀ not preserved.
- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Castanea sativa* - (as *Fagocyba cruenta* var *Douglasi*): 2♂♂ 2♀♀ dry - 2 very light specimens.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - (var *douglasi* Edwards) - H.P. *Carpinus betulus*: 2♂♂ 4♀♀ - H.P. *Castanea sativa*: 2♂♂ 6♀♀ all not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Acer campestre* - (as *Fagocyba cruenta* var *Douglasi*): 1♂ dry.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus*: 1♂ 30♀♀ not prepared.
- Typhl. 417 - LIGURIA - Rezzo (IM) - m 500 ~ - 14-IX-62 - (Arriving from Pieve di Teco, locality populated by *Rhus cotinus* a little before Rezzo) - H.P. *Rhus cotinus*: 1♂ not prepared. Strong wind, steep slope, and the abundance of brambles prevented me from examining well this plant; it is not improbable that also in this locality *R. cotinus* hosts some interesting species of Typhlocybidae, like in the area of Trieste where one finds *Zyginella pulchra*. The basal leaves, less exposed to the wind, are in fact very depigmented.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - Windy day! In this area there are also: *Quercus*, *Corylus*, *Ostrya* - (as var *douglasi*) - H.P. *Castanea sativa*: 5♂♂ 6♀♀ - H.P. *Carpinus betulus*: 2♂♂ + ♀♀ - All not prepared.
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Fagus sylvatica* (low bushy plants: windy day) - (var *douglasi*): ♂♂ ♀♀ not prepared.

- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, shaded understorey: *Castanea*, *Acer*) - 15-IX-62 - H.P. *Carpinus betulus*: 1♂ 7♀ - H.P. *Acer pseudoplatanus* (low shrubs) - (var *douglasi*): 1♂ + ♀♀ - All not prepared.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (windy day) - (as *Fagocyba cruenta* var *Douglasi*) - H.P. *Quercus pedunculata*: 1♂ 1♀ dry - H.P. *Crataegus monogyna*: ♂♂ ♀♀ not preserved - Forma typica: ! 1♂ dry - H.P. *Acer campestre*: Idem - H.P. *Sorbus aria* (ubiquist from *Fagus*): Idem - H.P. *Fagus sylvatica*: Idem - H.P. *Malus pumila* - (as *F. cruenta* forma typica): ! 1♂ dry - H.P. *Crataegus monogyna* - [as *Typhlocyba* s.l. (*Edwardsiana* spp. or *Fagocyba*)]: 16♀♀ not prepared.
- Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (park of the Institute) - 11-VII-64 - H.P. *Tilia europaea*: 2♂♂ 2♀♀ not prepared.
- Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings 1-2 Km from the railway station) - 12-VII-64 - H.P. *Quercus pedunculata*: ♂♂ ♀♀ - H.P. *Alnus glutinosa*: 5♂♂ + ♀♀ - H.P. *Betula alba*: 5♂♂ + ♀♀ - All not prepared.
- Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - H.P. *Betula alba*: 2♂♂ 4♀♀ not preserved - H.P. *Fagus sylvatica*: (many ♂♂ and ♀♀) 4♂♂ 4♀♀ dry - H.P. *Quercus pedunculata*: 2♂♂ 3♀♀ not preserved.
- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Betula alba* (near *S. caprea*, *Corylus*, *Fagus*, etc.): 1♂ - H.P. *Salix caprea* and *Alnus viridis* (near beech, m 1,800): 1♂ 1♀.
- Typhl. 516 - TUSCANY - Abetone (PT) - (Beechwood of the Tuscan slope) - m 1,200 - 18-VIII-64 - H.P. *Fagus sylvatica*: ♂♂ ♀♀ not prepared.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj); m 1,100, (close to the restaurant on the road Sinj-Livno) - 4-IX-64 - karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - beginning of the North-East slope of Dinara Planina, Dolinas, etc. - H.P. *Fagus sylvatica* - var *douglasi*: ♂♂ ♀♀ not prepared.
- Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P. *Alnus incana*: 1♂ 1♀ ? dry.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Lemme stream) - 15-VIII-81 - Bed of the stream where there are plenty *Salix* and *Populus* but *Quercus* is missing - H.P. *Alnus glutinosa*: 1♂ dry (phot. ... Wild, mm 3.35): 1♀ ? dry. (phot. ... Wild, mm 3.9).
- Typhl. 621 - PIEDMONT - Capriata d'Orba (AL) - (Ditch in front of the Cemetery) - 16-VIII-81 - H.P. *Alnus glutinosa*: 1♂ dry, 5♀♀ not preserved.
- Typhl. 652 - PIEDMONT - Turin - Liceo Alfieri (Corso Massimo D'Azeglio) - 11-VII-83 - H.P. *Carpinus betulus*: 1♂ dry + 19♀♀ of both species (*Edwardsiana flavescens*, editor's note): 1♀ dry. The other ♀♀ not prepared: used for electrophoretic examination.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Fagus sylvatica* v *asplenifolia*, ornamental (near the railing of the playing ground): 3♂♂ 6♀♀ - H.P. *Betula verrucosa* (railing towards the playing ground): 1♂ 2♀♀ - All not prepared.

- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Acer palmatum*: 1♂ dry (*Periphyllus* sp.) - H.P. *Betula pendula*: 6♂♂6♀♀ (2♂♂2♀♀ dry). Specimens variously pigmented.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 1♂ + 5♀♀ - H.P. *Betula verrucosa* (slope of Cumiana): 1♀ - All not prepared.
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea, (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Aemilanchier chamaedrys* - H.P. *Ostrya carpinifolia*: 1♂ dry (+ 2♂♂ dryinidized) + 9♀♀ (1 dryinidized).
- Typhl. 719 - GERMANY - Hamburg - W. Germany - Park "Planten un Blomen" - 24-VI-II-84 - (XII International Congress of Entomology) - Leg. Vidano and Arzone - H.P. *Betula ermanii* Cham.: Asia and Japan (Data of the label) - Isolate plant in a lawn: 2♀♀ (from reared nymphs) dry - H.P. *Acer pseudoplatanus* (or ? *pseudoplatanum*): 1♂ dry.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Betula pendula* (young and luxuriant plants near *Fagus*, *Salix*, and *Rubus*, in a grassy and humid plain): 1♂2♀♀ dry.
- Typhl. 731 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 20-IX-84 - H.P. *Alnus cordata* - (tree of about 10 years of age, near the greenhouses): 10 exuviae dry (exuviae on the lower page of very depigmented leaves) - Determination made with drawings of nymphs by Wilson - on 2-VIII-84 - this species was not noted.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - H.P. *Corylus avellana* (near chestnuts, beeches, willows, maples, upstream) - 1st bush: 1♂ dry (+ 2♀♀ : 1 dryinidized, 1 pipunculidized).
- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - H.P. *Alnus viridis* (remarkable depigmentations, bushes along the road): 1♂14♀♀ - Thicket in a clearing of the beechwood (remarkable depigmentations): 1♂12♀♀ - H.P. *Fagus sylvatica* (near the thicket of *A. viridis*): 3♂♂16♀♀ (1♂2♀♀ dryinidized) - All not prepared.
- Typhl. 738 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope opposite to that of the cableways - m 1,500 - H.P. *Fagus sylvatica* (m 1,550): 1♂6♀♀ (3 dryinidized specimens; dryinids cocooned: 29-IX-84) - not prepared.
- Typhl. 748 - PIEDMONT - Turin - (Giardini Reali) - (Leg. Arnò) - 19-XI-84 - H.P. *Carpinus betulus* v *pyramidalis*: 4♂♂ + 2♂♂ dryinidized. - H.P. *Ulmus campestris* (bush): 1♂.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Rovasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Colle San Bernardo (8-VIII); colle Tenda (31-VII): 8♂♂8♀♀.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 2♂♂ dry.
- Typhl. 875 - LOMBARDY - Lenno (CO) - 3-X-86 - H.P. *Ostrya carpinifolia* (very de-

pigmented leaves): 1♂ 16♀ ♀.

Typhl. 876 - LOMBARDY - Villa Olmo (CO) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia* - (Plants of the park - Considerable leaf depigmentation - Presence of *Carpinus betulus*): 3♂♂ dry (1♂ dryinidized), 60♀♀ *F. cruenta* and *Edwardsiana* spp. not preserved.

Typhl. 877 - LOMBARDY - Villa Olmo (CO) - 5-X-86 - h 9-10 - H.P. *Ostrya carpinifolia* (the same plant observed in the evening of 4-X-86): 6♂♂ 6♀♀ dry. Leaves with nymphs put in plastic bags to get adults (rearings made by Demichelis): 3♂♂ 7♀♀ dry (Demichelis).

Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~, along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 1♂ (dryinidized) dry, 4♀♀ (1 pipunculidized, 1 dryinidized) - H.P. *Corylus avellana*: 2♂♂ 2♀♀ (1♂ 1♀ dryinidized) not preserved - H.P. *Acer pseudoplatanus*: 1♂ 1♀ dryinidized not preserved.

Typhl. 883 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - Leg. Demichelis - 25-X-86 - H.P. *Alnus cordata*: exuviae and 5th instar nymphs not prepared.

Typhl. 949 - LOMBARDY - Villa Olmo (CO) - 19-VIII-88 - H.P. *Ostrya* and *Carpinus* (the specimens of the various species collected on the low part on the canopy of a same tree): 5♂♂ + ♀♀ not prepared.

FAGOCYBA douglasi (Edwards, 1878)

Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Carpinus betulus* - (as *Typhlocyba*): 3♂♂ (1 dry, 2 in alcohol), 6♀♀ (2 dry, 4 in alcohol) - The determination of the ♂♂ is certain, that of the ♀♀ no. Only the faint yellow colour of the elytra is not a sufficient guarantee. However on the hornbeam (host plant), having found mostly ♂♂ of *Typhl. Douglasi* (3 against 1 of *T. solearis*) (= *frustrator*, editor's note), I attribute also the 6 collected ♀♀ to this species, keeping in mind that actually the same ♀♀ show very yellow coloured elytra.

Typhl. 93 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 19-V-57 - H.P. *Carpinus betulus* - (as *Typhlocyba*): 1♂ dry.

Typhl. 111 - PIEDMONT - Caluso (TO) - (Salvetti Pietro's meadow) - Dry ditch, zone of Aiè - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♂ dry.

Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - (as *Typhlocyba*) - H.P. *Quercus pedunculata* (8-9 metres tall): 1♂ dry - H.P. *Alnus glutinosa* - I collected 5 adults: 2♂♂ 3♀♀ not preserved. Only 1 reared ♀ emerged.

Typhl. 122 - PIEDMONT - Turin - (Botanical gardens) - 4-VII-57 - (as *Typhlocyba*) - H.P. *Alnus glutinosa*: 1♂ - H.P. *Betula alba*: 1♂ 9♀♀ - H.P. *Fagus sylvatica*: 1♂ 6♀♀ - all not prepared.

Typhl. 126 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Meana) - m 100 - 5-VII-57 - H.P. beech - (as *Typhlocyba*): presence of adults and nymphs: 2♂♂ 2♀♀ dry.

Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Carpinus betulus* - (as *Typhlocyba*): 2♂♂ 4♀♀ not prepared.

- Typhl. 177 - CAMPANIA - Punta S. Angelo-Sant'Agata sui due Golfi (NA) - 4-IX-57 - (Property of Miss Todeschini - Miramare-Sorrento) - H.P. chestnut (leaves, above all those nearer to the ground, very depigmented) - (as *Typhlocyba*): 2♂♂ 1♀ dry - ♀ with genital blades black apically and with a very curved terebra.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2♂♂ 6♀♀ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Park on the left of the road to Pinerolo) - 18-IX-57 - H.P. hornbeam - (as *Typhlocyba*): 2♂♂ dry.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* (topped plants on the right and hedge on the left of the road leading to the pheasant's reserve) - (as *Typhlocyba*): 8♂♂ (2 dry) and many ♀♀.
- Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - H.P. *Castanea sativa*, *Fagus sylvatica*, *Corylus avellana* (low bushes still with green foliage) - (as *Typhlocyba*) - Forma typica: 1♂ 3♀♀ dry, 2♂♂ 7♀♀ in a plastic tube - Forma *inquinata* Ribaut: 1♂ 5♀♀ dry, 1♂ 10♀♀ in a plastic tube.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Ulmus campestris* - (as *Typhlocyba*): 2♂♂ not prepared.
- Typhl. 253 - PIEDMONT - Colle del Lys (TO) - m 1,300 - 15-VII-58 - H.P. *Fagus sylvatica* - (as *Typhlocyba*): presence of plenty adults that move also onto conifers and herbaceous plants - I collected 11♂♂ 12♀♀ dry and in a plastic tube.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2♂♂ 5♀♀ not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400-500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.): 2♂♂ not prepared.

GENUS *DRYOCYBA* (Vilbaste, 1982)

DRYOCYBA carri (Edwards, 1914)

- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8-9 metres tall) - (as *Typhlocyba*): 8♂♂ (2 dry, 6 in alcohol, 1 with dryinid), 7♀♀ in alcohol.
- Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal, Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 2♂♂ dry.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX 57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 3♂♂ 3♀♀ dry.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 1♂ 1♀ dry.
- Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 1♂ 1♀ dry.
- Typhl. 535 - PIEDMONT - Fiano (TO) - (Hill) - m 400 - 22-X-64 - H.P. *Quercus* sp. (as

Fagocyba): 1♂ 1♀ dry (♂ without head).

Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*) - (as *Fagocyba*): 2♂♂ 1♀ dry.

Box 21

GENUS *OSSIANNILSSONOLA* Christian, 1953

OSSIANNILSSONOLA callosa (Then, 1886)

Typhl. 244 - PIEDMONT - Pino Torinese (TO) - 31-V-58 - H.P. *Acer pseudoplatanus* - (as *Typhlocyba*): presence of nymphs particularly on the lower page (mostly one per leaf and very few adults) - Leaves characteristically depigmented - phot. 4,819 - The adults emerged from the nymphs in a few days (prepared on 9-VI-58): 8♂♂ (3 dry, 5 in alcohol), 4♀♀ (2 dry, 2 in alcohol).

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Acer pseudoplatanus* - (as *Typhlocyba*): 4♀♀ forma typica dry.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - m 1,541 - 12-IX-59 - H.P. *Acer pseudoplatanus* - (as *Typhlocyba*): ♀♀ and few ♂♂ (not preserved).

Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Acer rubrum*: 1♀ dry.

Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (Park of the Institute) - 11-VII-64 - H.P. *Acer pseudoplatanus*: 2♂♂ 2♀♀ dry (♀♀ parasitized by dryinids).

Typhl. 516 - TUSCANY - Abetone (PT) - m 1,200 - (Beechwood of the Tuscan slope) - 18-VIII-64 - H.P. *Acer pseudoplatanus*: 6♀♀ dry.

Typhl. 598 - PIEDMONT - Forno di Coazze (TO) - m 950 - 14-IX-80 - H.P. *Acer pseudoplatanus*: 1♀ dry.

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - H.P. *Acer pseudoplatanus* - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Acer pseudoplatanus*: 1♂ 6♀♀ dry (2♀♀ photographed).

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Acer pseudoplatanus* - Depigmented leaves and with black exuviae of 5th instar nymphs (of *Eurhadina prope loewi*, editor's note): 4♀♀ dry (1 with a dryinid).

Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Acer pseudoplatanus* (very depigmented leaves; phot.): 2♀♀ dry.

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Rovasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Valcasotto (CN) - (Clearing in pinewood) - 3-VIII-81: 1♂.

Box 22

GENUS *EDWARDSIANA* Zachvatkin, 1929*EDWARDSIANA* sp.

- Typhl. 7 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. apple tree - I collected some *Typhlocyba* sp. adults. Of 4 adults, 4 are parasitized by dryinids. The day after collecting, 2 larvae of the parasite, having abandoned the victim that died immediately, cocooned on an apple leaf. Placed (17-X-55) the glass tube containing the leaf with both cocoons and a larva still fixed on a leafhopper inside a glass container: glass tube upside down and half buried in the ground.
- Typhl. 28 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 20-XI-55 - H.P. *Corylus avellana*: 1♂ 7♀ some of which are very yellow coloured - 1♂ 4♀ in alcohol.
- Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa*: 1♂ 1♀ in alcohol, 1♀ dry - Continue the determination with the material in alcohol starting from number 27 of Ribaut's table.
- Typhl. 38 - PIEDMONT - Condove (TO) - (Canal along the military road to Susa) - 3-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba* sp.): 1♂ 5♀ dry, 3♂♂ 6♀ in alcohol - Continue the determination with the material in alcohol starting from number 27 of Ribaut's table.
- Typhl. 39 - PIEDMONT - Stupinigi (TO) - (Woods along the road to Pinerolo) - 3-X-56 - H.P. *Corylus avellana* - (as *Typhlocyba* sp.): 1♂ 2♀ dry, 2♂♂ 5♀ in alcohol.
- Typhl. 46 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 6-X-56 - H.P. *Vitis vinifera* - (as *Typhlocyba* gr. *rosae*): 1♀ dry.
- Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Prunus persica* - (as *Typhlocyba* gr. *rosae*!): 2♀ dry.
- Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Salix caprea* (near Gramineae) - (as *Typhlocyba* sp. gr. *T. rosae*): 6♀ (4 in alcohol).
- Typhl. 60 - PIEDMONT - Caluso (TO) - (Salvetti's thicket - Regione Aiè) - 20-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba* gr. *rosae*): 5♀ in alcohol together (with *T. rosae* and *T. frustrator*, editor's note).
- Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - loc. Follocare (FG) - 6-VI-57 - H.P. *Quercus cerris* - (as *Typhlocyba* gr. *rosae*): 2♀ not prepared.
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Salvetti Pietro's meadow) - Dry ditch, zone of Aiè - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba* gr. *rosae*): 4♀ not prepared (one parasitized by a dryinid).
- Typhl. 501 - GREAT BRITAIN - London - Hyde Park - 15-VII-64 - H.P. *Tilia europaea*: 2♀ not prepared - H.P. *Ulmus campestris*: 2♀ not prepared.
- Typhl. 881 - PIEDMONT - Staffarda-Revello (CN) - 19-X-86 - H.P. *Prunus padus* (small trees and bushes along ditches and in thickets): presence of leaves with depigmentations and exuviae of *Edwardsiana* spp. nymphs (examined using Wilson's drawings).

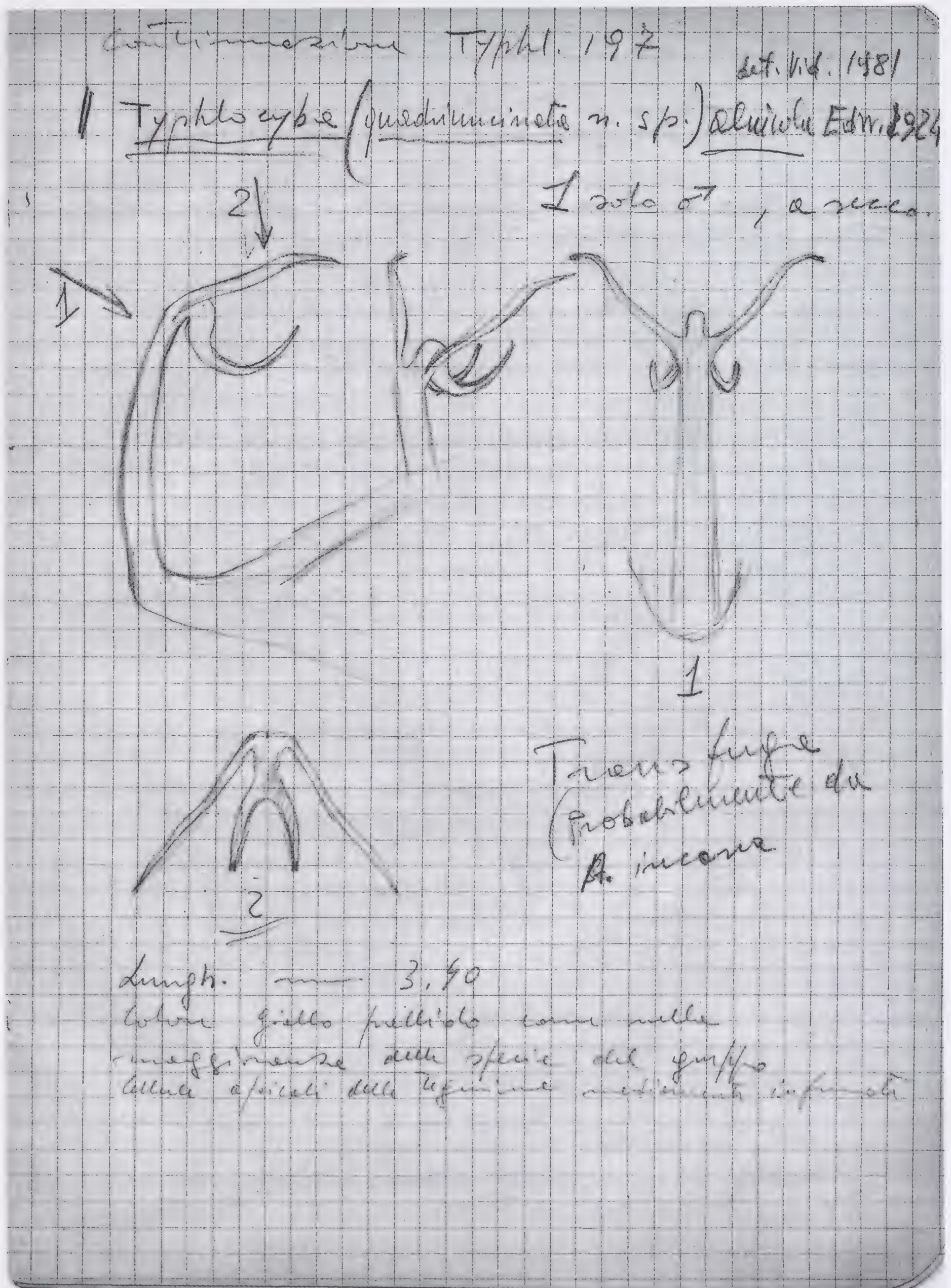
Presently the lower page of the leaves is populated by *Rhopalosiphum padi*: sessuparae gynoparae, amphygonic ♀ ♀ (neanids of different instars and the first adults), and first ♂ ♂.

EDWARDSIANA alnicola (Edwards, 1924)

- Typhl. 197 - PIEDMONT - Stupinigi (TO) - (Stream Sangone) - 24-IX-57 - H.P. *Salix alba*, *S. purpurea*: 1 ♂ dry - Det. Vidano 1981 - Defector probably from *Alnus incana* - Length mm 3.90 - Pale yellow colour like in the majority of the species of this group - Apical cells of the tegmina medially infumated - Many **drawings** (because believed n.sp. at that time).
- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Betula alba* (near *Salix caprea*, *Corylus*, *Fagus*, etc.) - (as *quadriuncinata* n.sp.) - Det. Vidano 1981: 1 ♂ dry - (Cfr. Typhl. 197).
- Typhl. 581 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 18-VI-78 - H.P. *Alnus ?incana*: 2 ♂ ♂ 3 ♀ ♀ dry + nymphs - !!!New for Italy.
- Typhl. 583 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 3-VII-78 - H.P. *Alnus incana*: 1 ♂ 3 ♀ ♀ dry - (The 3 ♀ ♀ are probably not of the same species).

EDWARDSIANA avellanae (Edwards, 1888)

- Typhl. 93 - PIEDMONT - Turin - (Arboreto Istituto) - 19-V-57 - H.P. *Corylus avellana* - (as *Typhlocyba*): 1 ♂ 4 ♀ ♀ dry - The first adult individuals appear at mid May and remain long on the lower leaf page near their exuviae. The newly born neanids appear on 10th April. Now there are 4th and 5th instar nymphs.
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Salveti Pietro's meadow) - Dry ditch, zone of Aiè - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2 ♂ ♂ (near *Corylus avellana*).
- Typhl. 112 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-VI-57 - H.P. *Corylus avellana* - (as *Typhlocyba*): 7 ♂ ♂ (1 dry, 6 in alcohol), 6 ♀ ♀ (1 dry, 5 in alcohol) - (3 ♂ ♂ parasitized by dryinids) - H.P. *Alnus glutinosa* (near *Corylus avellana*): 2 ♂ ♂.
- Typhl. 116 - PIEDMONT - Ternavasso (TO) - 21-VI-57 - H.P. *Quercus* sp. - (as *Typhlocyba*): 1 ♂ (probably coming from nearby hazelnuts) not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *Typhlocyba*) - (Perhaps coming from nearby hazelnuts): 1 ♂ 1 ♀ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Park on the left of the road to Pinerolo) - 18-IX-57 - (as *Typhlocyba*) - H.P. *Corylus avellana*: 1 ♂ - H.P. *Carpinus betulus*: 1 ♂ - all not prepared.
- Typhl. 245 - LOMBARDY - Pavia - (Botanical gardens) - 7-VI-58 - H.P. *Corylus* sp. (red leaves) - (as *Typhlocyba*): !!! 1 ♂ 1 ♀ not prepared.
- Typhl. 280 - PIEDMONT - Villar Perosa (TO) - (road to Pra Martino) - 17-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1 ♂ (5 ♀ ♀ gr. *rosae*) not prepared.

Fig. 10 - A notebook page with the sketches of the genitalia of *Edwardsiana alnicola* Edwards

- Typhl. 282 - PIEDMONT - Barone Canavese (TO) - 20-XI-58 - H.P. *Corylus avellana* - (as *Typhlocyba*): 7♂♂ dry - 2♂♂ to Linnavuori, September 1961.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - 12-IX-59 - Locality between Ruinaux and Fénille - m 1,120 - H.P. *Corylus avellana* - (as *Typhlocyba*): 2♂♂ 3♀♀ not prepared.
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - m 1,028 - H.P. *Corylus avellana* - (as *Typhlocyba*): 3♂♂ 7♀♀ not prepared.
- Typhl. 290 - PIEDMONT - Cortemilia (Alba) (CN) - 2-X-59 - H.P. *Corylus avellana* - (as *Typhlocyba*): ♂♂ ♀♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with bushes of various broadleaves, 6-7 m high, in continuation with arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Corylus avellana*: 2♂♂ 12♀♀ not prepared.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Corylus avellana*: ! 1♂ + ♀♀ not prepared.
- Typhl. 449 - CAMPANIA - Surroundings of Avellino - 8-X-62 - (Leg. dr Viggiani) - H.P. *Corylus avellana*: 3♂♂.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Corylus avellana* (behind an isolated house): 12♂♂ 12♀♀ - 1♂ dryinidized - (4♂♂ 4♀♀ dry) (*Malacocoris chlorizans* forma *smaragdula*: 2♂♂ 5♀♀ dry - 1♀ phot. (...) Wild, length mm 4 - Cfr Typhl. 612 - I collected in the same site of *Reuteria marqueti*).
- Typhl. 633 - PIEDMONT - Vercelli - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 3♂♂ dry (near *Corylus*?).
- Typhl. 653 - PIEDMONT - Turin - (Valentino Park) - (Medieval castle) - 11-VII-83 - H.P. *Corylus avellana*: ♂♂ ♀♀ (3 + 13 ♀♀ - Cfr. Typhl. 657) not prepared.
- Typhl. 657 - PIEDMONT - Turin - (Valentino Park) - 8-VIII-83 - H.P. *Corylus avellana*: 8♂♂ 8♀♀ dry + nymphs.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Betula verrucosa*: 1♂ dry (probably from hazelnut near the Medieval castle).
- Typhl. 677 bis - PIEDMONT - Stupinigi (TO) - 3-VI-84 - H.P. *Corylus avellana* (depigmented leaves, with juveniles of typhlocybines) - Reared (Demichelis) - Emergences: 8-VI-84: 1♂ not prepared.
- Typhl. 678 - PIEDMONT - Predosa (AL) - 10-VI-84 - H.P. *Corylus avellana*: 1♂.
- Typhl. 682 - PIEDMONT - Vistrorio (TO) - m 500 - 17-VI-84 - H.P. *Corylus avellana*, rearings (Demichelis) - Emergences: 25-28 giugno 1984: 2♂♂ + ♀♀ not prepared.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 2♂♂ dry (1 of which parasitized).
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana*: abundant on the margins of the plots (meadows), mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 2♂♂ (1 dryinidized) dry.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - Slope of Garesio - H.P. *Corylus avellana* (near chestnuts, beeches, willows, maples) upstream. 2nd bush: 1♂ not prepared.

Typhl. 740 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 900 - H.P. *Corylus avellana* (wild): 2♂♂ + ♀♀ not prepared.

Typhl. 740 bis - PIEDMONT - San Michele Mondovì (CN) - 27-IX-84 - m 600 - H.P. *Corylus avellana* (cultivated): 1♂ + ♀♀ not prepared.

EDWARDSIANA bergmani (Tullgren, 1916)

Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings 1-2 Km from the railway station) - 12-VII-64 - H.P. *Alnus glutinosa*: 1♂ dry - H.P. *Betula alba*: 1♂ dry.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - Hampshire - New Forest - 12-VII-64 - H.P. *Betula alba*: 2♂♂ 3♀♀ dry.

Typhl. 547 - LOMBARDY - Val Camonica - Ponte di Legno (BS) - Passo del Tonale - 4th curve - m 1,400 - 21-VIII-66 - Mixed broadleaf and conifer wood - H.P. *Alnus viridis*: !!! 5♂♂ 1♀ dry (2♂♂ pipunculidized).

Typhl. 549 - TRENTINO-ALTO ADIGE - Passo del Tonale (TN) - (Trentino slope) - m 1,800 - 21-VIII-66 - Base of *Alnus viridis* bushes in an Alpine pasture - H.P. *Alnus viridis*: ? 1♂ not prepared, 1♀ dry.

Typhl. 719 - GERMANY - Hamburg (W Germany) - Park "Planten un Blomen" - 24-VI-II-84 - (XII Intern.Kongr.Entom.) - Leg. Vidano & Arzone - H.P. *Betula ermanii* Cham.: Asia and Japan (Data on the label) - Isolated plant in a lawn - Reared from a nymph: ? 1♀ dry.

EDWARDSIANA candidula (Kirschbaum, 1868)

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Populus alba* (young trees with a sparse apical canopy, 4-5 m tall, in the middle of a mixed coppice) - (as *Typhlocyba*): !!! 7♂♂ (3 dry, 4 in alcohol), 5♀♀ (2 dry, 3 in alcohol).

Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the Palace, immediately after the church) - 24-IX-57 - H.P. *Populus alba*, big topped trees, in rows - This species seems to prefer the high parts of the canopy - (as *Typhlocyba*) - Forma typica: 2♂♂ 9♀♀ (5 dry) - !!!var *martigniaca*: 2♂♂ dry.

Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. *Populus alba* - (as *Typhlocyba*): 2♀♀ not prepared.

Typhl. 358 - FRIULI-VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Populus alba*: 1♂ 1♀ dry + var *martigniaca* Cerutti: 1♂ dry.

Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P. *Populus alba*: 8♂♂ (3 dryinidized), 11♀♀ (3 dryinidized) dry - Great part of the individuals have just emerged. The appendages of the aedeagus break easily - var *martigniaca*: 4♂♂ dry.

Typhl. 619 - PIEDMONT - Capriata d'Orba (AL) - (Near the stream) - 16-VIII-81 - H.P. *Populus alba* (small plants near excavation and lake): 2♂♂ 2♀♀ - phot. (...) Wild: 1♂ (length mm 3.7), 1♀ (length mm 3.9), 1♂ dryinidized - Other 4♀♀ (3 of which dryinidized) not prepared.

EDWARDSIANA crataegi (Douglas, 1878)

- Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree - (as *Typhlocyba Froggatti*): 8♂♂ (6 of which parasitized by *Aphelopus*) and ♀♀ parasitized (det. December 1960) not prepared.
- Typhl. 01 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 11-IX-55 - H.P. apple tree - (as *Typhlocyba froggatti*): 1♂ dry.
- Typhl. 25 - PIEDMONT - Caluso (TO) - (Picco Giovanni's apple grove) - (Briamara) - 23-X-55 - H.P. *Malus communis* var Bella di Roma and Firminella. (as *Typhlocyba froggatti*): 1♂ dry, 1♂ in alcohol, 2 ♀♀ (maybe with *E. rosae*) in alcohol - Presence of a fair number of adults above all on the low part of the canopies, still thick and green, and even in great quantity on the lower page of the leaves of suckers growing from the collar zone of the apple trees. There are still some 5th instar nymphs. The adults are presently mostly parasitized by dryinid larvae. Of 52 individuals collected (30♂♂ and 22 ♀♀) 44 are attacked (27♂♂ and 17 ♀♀). Shaking the foliage, the individuals hosting the mature parasite larva cannot fly anymore and fall slowly onto the ground. On the lower apple leaf page there are many adults (from 1 to even 6-7) firmly fixed with the mouth stylets and legs, but dead and abandoned by the parasite's larva. Until almost 1 hour before abandoning the victim (still able until then to feed and, if pushed, to walk or even make short and heavy flights) the larva appears regularly included in its last exuvia. At the end it breaks dorsally in a longitudinal way permitting the larva to exit after having emptied the victim; the latter ceases any activity since this moment. The dryinid larva emerges gradually with its back, obliging the victim to divaricate more or less widely its wings; but before coming definitively out, it empties accurately the leafhopper's thorax and abdomen respecting only the integument. About twenty dryinid larvae have regularly cocooned between the apple leaf and the glass tube or between two leaves. (Reared). 3 dryinid larvae, 1 cocooned dryinid larva in alcohol - 14-VIII-56 - Extracted from the rearing (upside down glass tubes half buried in the ground) half a dozen of dryinid adults dead since a long time and now ruined. In alcohol with some cocoons. 5 more cocoons, fixed to a leaf, are prepared dry - Classified by Vidano on 26-XII-60.
- Typhl. 27 - PIEDMONT - Caluso (TO) - (Picco Giovanni's apple grove) - 20-XI-55 - H.P. apple tree: presence of many adults of the below mentioned genus (*Typhlocyba* and *Erythroneura*) on the lower apple leaf page. They are many above all on the leaves of basal suckers, I do not see any parasitized by dryinids - (as *Typhlocyba*): 1♂ dry, 2♂♂ 3 ♀♀ in alcohol - Very sulphur yellow coloured.
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. apple tree - (as *Typhlocyba australis*, then *froggatti*): 2♂♂ dry, 18 ♀♀ not determined, probably *T. rosae* and *T. australis* mixed.
- Typhl. 72 - PIEDMONT - Caluso (TO) - (Monti Barbisin's apple orchard) - 18-XI-56 - H.P. *Malus communis* - (as *Typhlocyba australis*, then *froggatti*, correct *crataegi*): 9♂♂ (2 dry, 7 in alcohol) - Typhl. gr. *rosae* (*australis* and *rosae* mixed) 40 ♀♀ in alcohol. Several *T. rosae* adults are parasitized by larvae of a dryinid (?*Aphelopus*) - Over about twenty larvae are reared (rearing 1,184); 6 mature larvae (4 free and

2 still fixed to the victim) are put in alcohol.

- Typhl. 73 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 24-XI-56 - H.P. apple tree - (as *Typhlocyba australis*): 14♂♂ (1 phot., 3 dry, 10 in alcohol) - The ♂♂ (and perhaps also the ♀♀) can be certainly recognized from those of *T. rosae* because their colour is an intense lemon yellow (phot. 3,632: ♂ dorsal; 3,633: ♀ dorsal). In alcohol 30 ♀♀ *Typhl. rosae* and *australis* together - 26-XII-60 Vidano determined the 10♂♂ in alcohol as: *T. crataegi* 3♂♂ and *T. froggatti* 7♂♂.
- Typhl. 118 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 22-VI-57 - H.P. *Malus communis* - (as *Typhlocyba froggatti*) - 23 individuals of which: 9♂♂ (5 parasitized, 4 in alcohol), 14 ♀♀ (5 parasitized, 9 in alcohol). Tegmina characteristically infumate. Actually they live on the apple trees. I found no *T. rosae* individuals - Rearing A: 6 *Aphelopus*, Rearing B: 4 *Aphelopus*. 4-VII-57 - One can already see some adults through the mesh of the cocoon - 7-VII-57: 1 adult emerged (*Aphelopus*) and 1 dipteran (Pipunculidae) - 8/11-VII-57: 3 adults emerged - 12/15-VII-57: 2 ♀♀ adults emerged, dry, 2 died in the cocoon, 1? - In alcohol 2♂♂ 6 ♀♀, 2 of which in the cocoon.
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Prunus domestica* - (as *Typhlocyba froggatti*): 1♂ 2 ♀♀ not prepared.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *Typhlocyba froggatti*): 1♂ 3 ♀♀ not prepared.
- Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Tasso (Caronno Varesino, VA) - H.P. apple tree - (as *froggatti*): 3♂♂.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Crataegus monogyna* - (as *froggatti*): 1♂ dry + 3♂♂ parasitized by dryinids - *E. froggatti* v *cornuta* Wagner: 1♂ dry (= *E. crataegi* Douglas).
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Crataegus monogyna* - (as *froggatti*): 1♂ dry.
- Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Malus pumila*: 2♂♂ dry.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Malus communis*: 1♂ 4 ♀♀ dry.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Prunus pissardi* (House of municipal guards): 1♂ 3 ♀♀ dry (1 ♀ dryinidized) - H.P. *Prunus cerasus* (weeping, ornamental): 1♂ (not preserved) - H.P. *Malus* (?*communis*: railing towards the Exhibition Hall): 1♂ 2 ♀♀ dry.

EDWARDSIANA diversa (Edwards, 1914)

- Typhl. 177 - CAMPANIA - Punta S. Angelo, Sant'Agata sui due Golfi (NA) - (Miss Todeschini's property - Miramare, Sorrento) - 4-IX-57 - H.P. *Castanea vesca* (very depigmented leaves, above all those closer to the ground) - (as *Typhlocyba*): 1♂ 3 ♀♀ dry.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 1♂ dry, ♀♀ not preserved.

- Typhl. 259 - PIEDMONT - Nizza Monferrato (AT) - (road to Alessandria, 2-3 Km from the city) - 31-VII-58 - H.P. *Cornus sanguinea* (very depigmented leaves) - (as *Typhlocyba*): 1♂ dry, ♀♀ not preserved.
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - H.P. *Salix alba* - (as *Typhlocyba*): 1♂ dry - H.P. *Alnus incana*: 1♂ dry.
- Typhl. 301 - PIEDMONT - Baldissero Canavese (TO) - (Near the serpentine promontory) - 10-V-61 - H.P. *Cornus sanguinea* - Hedge between the tarred road and the vineyard - Presence of plenty adults and some last instar nymphs on the lower page of depigmented leaves - Adults already mating - (as *Typhlocyba*): 18♂♂ 8♀♀ dry - 3♂♂ 1♀ to Linnavuori, September 1961.
- Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Betula alba*: 1♂ dry.
- Typhl. 305 - PIEDMONT - Lanzo (TO) - (road to Corio, near the crossroad to Coassolo) - 31-V-61 - H.P. *Cornus mas*: presence of ♂♂ and ♀♀ adults in the same number and of 5th instar nymphs on the lower page of depigmented leaves - 1♂ and 1♀ dry - 5♂♂ and 5♀♀ (1 parasitized by *Aphelopus*) and 2 nymphs in alcohol.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Cornus sanguinea*: 1♂ 5♀♀ dry.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Cornus sanguinea*: 2♂♂ 3♀♀ dry - 1♂ and 1♀ pipunculidized not prepared.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Salix caprea*!: 2♂♂ 1♀ dry (maybe coming from *Rubus*) - H.P. *Rubus fruticosus* (many depigmented leaves): 3♂♂ 2♀♀ dry + nymphs.
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Castanea sativa*: 2♂♂ dry - H.P. *Ulmus campestris*: 1♂ dry + ♀♀.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 ~, 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Castanea sativa* (very low bushes): 2♂♂ 13♀♀ dry.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Castanea sativa* (bush): 1♂ 5♀♀ (♂ and 2♀♀ dry).
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Cornus sanguinea* (very depigmented leaves): ? ♂♂ ♀♀ not prepared.
- Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Cornus mas* and *Cornus sanguinea* (very depigmented leaves): 1♂ dry (specimen parasitized by *Aphelopus*).
- Typhl. 914 - ABRUZZO - Prati di Tivo (TE) - Gran Sasso - 17-VI-88 - H.P. *Acer* sp.: 1♂ 5♀♀.

Box 23

EDWARDSIANA flavescens (Fabricius, 1794)

- Typhl. 23 - PIEDMONT - Meana (TO) - (road of Colle delle Finestre) - m 1,000 - 17-X-55 - H.P. *Acer pseudoplatanus* - (as *Typhlocyba fraterculus*): 1♂ 2♀ ♀ dry.
- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia and Bianco's property) - 6-X-56 - H.P. *Alnus glutinosa* - (as *fraterculus*): 1♂ dry.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Castanea vesca* - (as *fraterculus*): 1♂ 1♀ dry.
- Typhl. 652 - PIEDMONT - Turin - (Liceo Alfieri, Corso Massimo D'Azeglio) - 11-VII-83 - H.P. *Carpinus betulus* (as *fraterculus*): 2♂♂ dry (with short upper pygofer appendages) - (Cfr. Typhl. 365 *Castanea*, Typhl. 23 *Acer*, Typhl. 45 *Alnus*).
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Fagus sylvatica* v *asplenifolia*, ornamental near railing of the playing ground: 2♂♂ dry (1♂ with long upper pygofer appendages, 1♂ with short upper pygofer appendages) - (Cfr. Typhl. 652) - (I collected also 11♀♀ of *Edwardsiana* spp.: not prepared - H.P. *Betula verrucosa*: 1♂ dry (long upper pygofer appendages) - (Cfr. Typhl. 661: H.P. *Fagus*) - (*Edwardsiana* sp.: 5♀♀ not prepared). All the specimens collected on tender leaves of the basal suckers: *Empoasca* and *E. flavescens* could have grown on them.
- Typhl. 678 - PIEDMONT - Predosa (AL) - 10-VI-84 - H.P. *Carpinus betulus* (depigmented leaves): 1♂ (from a nymph) dry.
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant bushes) - ? (forma ?*sororcula* Ossiannilsson): 1♂ dry (aedeagus poorly developed and pale - No trace of parasitization) - 3♀♀ not prepared (1♀ with a dryinid; such ♀♀ with integument and pigments not strengthened).
- Typhl. 748 - PIEDMONT - Turin - (Giardini Reali) - (Leg. Arnò) - 19-XI-84 - H.P. *Carpinus betulus* v *pyramidalis*: 1♂ (type?: short upper pygofer appendages); 2♂♂ (type *sororcula* Ossiannilsson, long upper pygofer appendages) - H.P. *Prunus pissardi*: 1♂ (long upper pygofer appendages).
- Typhl. 877 - LOMBARDY - Como - (Villa Olmo) - 5-X-86 - h 9-10 - H.P. *Ostrya carpinifolia* (the same plant observed on 4-X-86): 4♂♂ dry (2♂♂ dryinidized) - Leaves with nymphs put in plastic bags to rear adults - (Rearings made by S. Demichelis): 4♂♂ 2♀♀ dry (Demichelis).

EDWARDSIANA frustrator (Edwards, 1908)

- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia and Bianco's property) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba solearis*): 1♂ dry.
- Typhl. 60 - PIEDMONT - Caluso (TO) - (Salvetti's thicket - Regione Aiè) - 20-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba solearis*): 1♂ + 1♂ *T. rosae* + 5♀♀ *T. gr. rosae* in alcohol together.
- Typhl. 61 - PIEDMONT - (Cfr. Typhl. 80) - Caluso (TO) - (Dry ditch: Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba solearis*): 8♂♂!! 18♀♀ in alcohol.

- Typhl. 64 - PIEDMONT - (Cfr. Typhl. 47) - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Typhlocyba solearis*): 1♂ (destroyed).
- Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Carpinus betulus* - (as *Typhlocyba solearis*) - (with *T. douglasi* Edwards - The determination of the ♂♂ is certain, that of the ♀♀ no. Only the faint yellow colour of the elytra is not a sufficient guarantee. However as I found on hornbeam (host plant) mostly *Typhl. Douglasi* ♂♂ (3 against 1 of *T. solearis*) (= *frustrator*, editor's note) I attribute also the 6 collected ♀♀ to this species, keeping in mind that actually the same ♀♀ have very yellow coloured elytra - 1♂ dry.
- Typhl. 93 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 19-V-57 - (as *Typhlocyba solearis*) - H.P. *Ulmus* sp.: 3♂♂ 2♀♀ dry. This species really lives on elm! Now the first adults are emerging, while there are still 4th and 5th instar nymphs on the leaves - H.P. *Carpinus betulus*: 3♂♂ 7♀♀ in alcohol - The ♂♂ are well classified on the base of the characters of the aedeagus. However one of them shows very golden elytra (in the other 2 they are white) and the head silhouette more rounded. Of the ♀♀ 3 are white and 4 have golden wings like the above mentioned ♂, a different head silhouette and the end of the terebra not pigmented with brown. Such 4♀♀ could be *T. douglasi*. This species overwintered on hornbeam where the 4th and 5th instar nymphs are still living.
- Typhl. 97 - PIEDMONT - (Cfr. Typhl. 102) - Bussoleno-S. Giorio (TO) - 23-V-57 - H.P. *Ulmus campestris* - (as *Typhlocyba solearis*): 1♂ dry.
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Salveti Pietro's meadow) - Dry ditch, zone of Aiè - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba solearis*): 1♂ dry.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (= *Typhlocyba solearis*): 1♂ dry.
- Typhl. 204 - PIEDMONT - Trofarello (TO) - (Sports ground) - 4-X-57 - (as *Typhlocyba*) - H.P. *Tilia europaea*: 3♂♂ (1 dry, 2 in alcohol) 11♀♀ (3 dry, 8 in alcohol) - Ternavasso (TO) - (Avenue leading to the castle) - H.P. *Tilia europaea*: 1♂ 3♀♀ dry.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch, Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2♂♂ dry.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*): 3♂♂ (2 dry).
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - (as *Typhlocyba*) - H.P. *Salix alba*: 1♂ dry - H.P. *Alnus incana*: 2♂♂ dry - H.P. *Rubus fruticosus*: 1♂ dry.
- Typhl. 282 - PIEDMONT - Barone Canavese (TO) - 20-XI-58 - H.P. *Corylus avellana* - (as *Typhlocyba = solearis*): 4♂♂ dry.
- Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Betula alba*: 1♂ parasitized by *Aphelopus*.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 1♂ dry.

- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, shaded understorey, *Castanea*, *Acer*, etc.) - 15-IX-62 - H.P. *Acer pseudoplatanus* (low bushes): 1 ♂ dry.
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Ulmus campestris* (hedge): 1 ♂ dry (+ ♀ ♀ not prepared).
- Typhl. 658 - PIEDMONT - Turin - (Valentino Park) - 12-VIII-83 - H.P. *Betula medwediewi* (ornamental) - (Near *Quercus sessiliflora*, very depigmented leaves and exuviae): 1 ♂ dry.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Betula medwediewi*: 1 ♂.
- Typhl. 662 - PIEDMONT - Turin - (Valentino Park) - 19-VIII-83 - H.P. *Betula verrucosa* (railing towards the playing ground): 1 ♂ dry.
- Typhl. 674 - PIEDMONT - Cavaglià (BI) - (Farm) - 9-V-84 - H.P. *Corylus avellana*, depigmented leaves and presence of 3rd-5th instar juveniles - Reared in glass tubes - Emergences (Demichelis) on 21-V-84: 5 ♂ ♂ 5 ♀ ♀.
- Typhl. 677 bis - PIEDMONT - Stupinigi (TO) - 3-VI-84 - H.P. *Corylus avellana*, depigmented leaves with juveniles of typhlocybines - Reared (Demichelis) - Emergences on 5-VI-84: 2 ♂ ♂.
- Typhl. 678 - PIEDMONT - Predosa (AL) - 10-VI-84 - H.P. *Corylus avellana* - emergences 14-VI-84: 1 ♂ 2 ♀ ♀ (sp.).
- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Prunus pissardi*: 3 ♂ ♂ 1 ♀ not prepared.
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Acer pseudoplatanus*: 1 ♂ dry (+ ♀ ♀ not prepared).
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa*: 5 ♂ ♂ dry - Aedeagus regular in 1 ♂, abnormal in the other 4 ♂ ♂, that however do not show any traces of parasitization - 3 ♀ ♀ not prepared (1 ♀ with a dryinid; such ♀ ♀ have the integument and pigments not strengthened).
- Typhl. 719 - GERMANY - Hamburg - W. Germany - Park "Planten un Blomen" - 24-VI-II-84 - (XII International Congress of Entomology) - Leg. Vidano and Arzone - H.P. *Acer pseudoplatanus* (or ?*pseudoplatanum*): 2 ♂ ♂ dry (1 ♂ dryinidized).
- Typhl. 729 - PIEDMONT - Valcasotto (CN) - m 950 - 16-IX-84 - H.P. *Betula pendula* (small and luxuriant plants along the road, near chestnuts): 1 ♂ dry, 1 ♀.
- Typhl. 748 - PIEDMONT - Turin - (Giardini Reali) - (leg. Arnò) - 19-XI-84 - H.P. *Carpinus betulus* v *pyramidalis*: 10 ♂ ♂ (with the bifid process bent downwards) - H.P. *Ulmus campestris* (bush): 1 ♂ - H.P. *Prunus pissardi*: 1 ♂.
- Typhl. 875 - LOMBARDY - Lenno (CO) - 3-X-86 - H.P. *Ostrya carpinifolia* (very depigmented leaves): 1 ♂ dry 3 ♀ ♀.
- Typhl. 876 - LOMBARDY - Como - (Villa Olmo) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia* - Plants of the Park (remarkable leaf depigmentation) - (Presence of *Carpinus betulus*): 3 ♂ ♂ dry (2 ♂ ♂ dryinidized).
- Typhl. 877 - LOMBARDY - Como - (Villa Olmo) - 5-X-86 - h 9-10 - H.P. *Ostrya carpinifolia*

folia (the same plant observed in the evening of 4-X-86): 1 ♂ dry.

Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 1 ♂ dry.

Typhl. 949 - LOMBARDY - (Cfr. Typhl. 876) - (4-X-86) - Como - (Villa Olmo) - 19-VI-II-88 - H.P. *Ostrya* and *Carpinus* (the specimens of the various species collected on the low part of the canopy of a same tree): 1 ♂ not prepared.

EDWARDSIANA geometrica (Schrank, 1801)

Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 3 ♀ ♀ dry, 2 ♀ ♀ in alcohol.

Typhl. 38 - PIEDMONT - Condove (TO) - (Canal along the military road to Susa) - 3-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2 ♀ ♀ dry.

Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia and Bianco's property) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ dry.

Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2 ♀ ♀ dry, 1 ♂ 2 ♀ ♀ in alcohol.

Typhl. 111 - PIEDMONT - Caluso (TO) - (Salvetti Pietro's meadow) - Dry ditch, zone of Aiè - 16-VI-57 - (Cfr. Typhl. 37, 38, 45, and 61) - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 11 adults of which 6 ♂ ♂ (2 dry, 4 in alcohol) and 5 ♀ ♀ (3 dry, 2 in alcohol) - phot. 4,052: ♀ with the scutum brown laterally; phot. 4,053: ♂ with the scutum completely brown; phot. 4,054: tegmen and wing of a ♂ - N.B.: the colour of the scutum has a considerable variation.

Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ not prepared.

Typhl. 121 - PIEDMONT - Caluso (TO) - (Canal) - 30-VI-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ dry (with the scutum brown only laterally).

Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, on the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ dry.

Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ 2 ♀ ♀ dry.

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Corylus avellana* - (as *Typhlocyba*): 1 ♀ dry (nearby there are only alders).

Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 13 ♀ ♀ (5 dry), no ♂ ♂.

Typhl. 201 - PIEDMONT - Caluso (TO) - (Hedge of Salvetti Pietro's field in the zone of Aiè, along the dry ditch) - 28-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2 ♀ ♀ not prepared.

Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch - Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 2 ♀ ♀ not prepared.

Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - 8-X-57 - (Wasteland on the side of the military road, on the right orographic side of

- the valley) - H.P. *Alnus incana* - (as *Typhlocyba*): 1♂ 4♀ ♀ dry.
- Typhl. 214 - PIEDMONT - Ulzio (TO) - (Dora Riparia Valley) - (Downstream, one Km outside the town, along the curve and the national route) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*): 2♀ ♀ not prepared.
- Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Alnus incana* (near the stone grinder) - (as *Typhlocyba*): 1♀ not prepared.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♀ not prepared.
- Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Alnus viridis* - (as *Typhlocyba*): 2♂♂ 7♀ ♀ in a plastic tube.
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - 22-X-58 - H.P. *Alnus incana* - (as *Typhlocyba*): 2♀ ♀ not prepared.
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Alnus viridis* - (as *Typhlocyba*): 3♂♂ 4♀ ♀ not prepared.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - m 1,541 - 12-IX-59 - H.P. *Alnus viridis* - (as *Typhlocyba*): 2♂♂ 4♀ ♀ and nymphs not prepared.
- Typhl. 301 - PIEDMONT - Baldissero Canavese (TO) - (Near the serpentine promontories) - 10-V-61 - H.P. *Alnus glutinosa*: 2♀ ♀ not prepared (reared from yellow nymphs).
- Typhl. 516 - TUSCANY - Abetone (PT) - m 1,400 - 18-VIII-64 - (Beechwood of the Emilian slope, arid slope) - H.P. *Alnus incana* v *typica*: 3♀ ♀ dry.
- Typhl. 583 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 3-VII-78 - H.P. *Alnus incana*: 1♀ dry.
- Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P. *Alnus incana*: 1♀ dry.
- Typhl. 624 - PIEDMONT - Orco Valley (TO) - m 1,550 - 23-VIII-81 - H.P. *Alnus viridis* - (Present from the base of the dam of the lake Serrù, m 2,275, down to the lake of Ceresole Reale m 1,600) - Day with a strong wind - Made many surveys at different heights but unsuccessful. Also the trials near the lake were unfruitful, where the wind is usually weaker - H.P. *Alnus incana* - Present from the beginning of Ceresole Reale (m 1,600) down to Pont Canavese (and maybe Cuornè), always along the stream Orco. At Locana (m 618), in small meadows, also *Alnus glutinosa* starts to appear - Ceresole Reale and Prese - I collected on *A. incana*: 8♂♂ 8♀ ♀ dry. 2♂♂ 1♀ dryinidized. Presence of nymphs on depigmented leaves - phot. (...) Wild: ♀ (with a battered pronotum) mm 4.30, 20x; (...) Wild: ♂ mm 4.10, 20x; (...) Wild: ♀ (normal) mm 4.30, 20x; (...) Wild: exuvia 5th instar nymph mm 2.3, 20x.
- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Alnus glutinosa* (along the seaside): 1♂ 2♀ ♀ dry.
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya*

carpinifolia on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Aemilanchier chamaedrys* - H.P. *Alnus incana* (along the river Tanaro): 1 ♂ dry.

Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 6 ♂ 11 ♀ dry.

EDWARDSIANA gratiosa (Boheman, 1852)

Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch, Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): !!! 1 ♀ dry. Phot. 4,412: ♀ dorsal.

Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 3 ♀ dry - Present on the thicker and inner part of the canopy.

Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa*: 1 ♂ 1 ♀ dry.

Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* (bed of the stream where *Salix* and *Populus* are many, but *Quercus* is missing): 5 ♂ 4 ♀ dry - phot. (...) Wild: 1 ♀, length mm 3.5.

Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 2 ♀ dry.

EDWARDSIANA helva Arzone, 1975

Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (border with Caluso) - 21-IX-57 - (Cfr. Typhl. 201, 208, 472) - Length: ♂ mm 3.75-3.90 - ♀ mm 3.80-4.00 - Vertex very rounded in the ♂ and slightly pointed in the ♀ - General body colour honey yellow with more intense tones on the pronotum, on scutum-scutellum, and on tegmina. The last show all veins slightly pigmented and the radial and median cells paler; the apical cells and the distal end of the cubital cell are well infumated. Colourless wings with yellowish veins - ♀ with the pregenital urosternum very pointed. By the shape and the position of the appendages of the aedeagus it is close to *T. candidula*; by the shape of the shaft of the aedeagus it approaches instead *T. fraterculus* and *T. tersa* - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 4 ♂ (2 dry, dissected, 2 in alcohol), several ♀ (3 dry, 5 in alcohol, several in a plastic tube; not surely classified). **Drawings** of style and aedeagus.

Typhl. 201 - PIEDMONT - Caluso (TO) - (Hedge of Salvetti Pietro's field in the zone of Aiè, along the dry ditch) - 28-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ 3 ♀ dry. (Cfr. Typhl. 193, 208, 472) - The lateral appendages of this ♂ are directed upwards and are very divaricated. They are displayed really like that of *T. candidula*'s aedeagus. But the shape of the shaft of the aedeags is like in *T. fraterculus* - 2 **Drawings** of the aedeagus.

Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch) - (Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ 4 ♀ dry - (Cfr. Typhl. 201, 193, 472).

Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa*: 2 ♂ + several ♀ dry - (Not all the ♀ belong to the mentioned species) - **Drawings** of the aedeagus - (Cfr. Typhl. 193, 201, 208).

- Typhl. 615 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - (Storm) - 9-VI-II-81 - H.P. *Alnus glutinosa*: ? 1 ♀. Phot. (...) Wild, 20x; length mm 3.5.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* (stream bed where *Salix* and *Populus* thrive, but *Quercus* is missing): 1 ♂ dry.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - Baraggia - 17-IX-81 - H.P. *Alnus glutinosa*: 1 ♂ dry.
- Typhl. 658 - PIEDMONT - Turin - (Valentino Park) - 12-VIII-83 - H.P. *Betula medwediewi* (ornamental, near *Quercus sessiliflora*) - Depigmented leaves and exuviae: 1 ♂ dry.

BOXES 24-25-26

EDWARDSIANA hippocastani (Edwards, 1888)

- Typhl. 18 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Alnus viridis* - (as *Typhlocyba*) along a ditch with water: 11 individuals uniformly yellowish, of which 3 ♂ ♂ 8 ♀ ♀ - 2 ♂ ♂ 4 ♀ ♀ are put in alcohol - the ♂ dry, not preserved - det. Vidano 1960.
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata*, *Q. cerris* - (as *Typhlocyba*): 1 ♂, the body dry. In alcohol the genital appendages, with the aedeagus separated from the rest. But in a single glass tube. Made several **drawings** of the aedeagus, that are now in those of *Typhlocyba* n.sp. of the *rosae* group. Cfr. Typhl. 66.
- Typhl. 93 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 19-V-57 - H.P. *Ulmus* sp. - (as *Typhlocyba*): 1 ♂ dry - Of the Pyrenees type, but with 2 antero-median branches of the aedeagus longly coalescent really like in the ♂ collected on *Quercus* at Ternavasso - Cfr. Typhl. 69 and **drawing**.
- Typhl. 97 - PIEDMONT - (Cfr. Typhl. 103) - Bussoleno-S. Giorio (TO) - 23-V-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*): 5 ♂ ♂ (1 dry, 4 in alcohol), 2 ♀ ♀ in alcohol - on 15-V-57, in the same place there are still no adults of *T. solearis* (*frustrator*, editor's note) and *T. hippocastani*, but only neanids and nymphs of both species (white those of the former species and yellow those of the latter) on the lower leaf page of *Ulmus* (really like in the plants of the Arboretum of the Institute: cfr. Typhl. 93) - presently there are still 3rd, 4th, and 5th instar nymphs.
- Typhl. 103 - PIEDMONT - Bussoleno-S. Giorio (TO) - 31-V-57 - (as *Typhlocyba*) - H.P. fig tree - Pyrenees form: 1 ♂ dry - H.P. *Ulmus campestris* - (Cfr. Typhl. 97) - 42 individuals of which: 22 ♂ ♂ (3 dry, 19 in alcohol), 20 ♀ ♀ (3 dry, 17 in alcohol) - phot. 3,988: ♂; 3,989: ♀ - There are still some 4th and 5th instar nymphs, I found no adults of *T. solearis* (*frustrator*, editor's note), the species that was there last time (Typhl. 97).
- Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - loc. Follocare (FG) - 6-VI-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 2 ♂ ♂ dry.
- Typhl. 117 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's hedge and surroundings) - 22-VI-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*): 1 ♂ not prepared.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately

after the church) - 24-IX-57 - H.P. *Ulmus campestris* (topped plants on the right and hedge on the left of the road leading to the pheasant's reserve) - (as *Typhlocyba*) - (Belgicum form according to Ribaut): 1♂ dry.

Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*) - (Pyrenees type): 5♂♂ dry.

Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hill in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still luxuriant bushes, in the middle of defoliated trees) - (as *Typhlocyba*) - (perhaps coming from elms): 1♂ not prepared.

Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with bushes of various broadleaves, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Acer campestre*: ? 1♂ dry.

Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: ? 1♂ dry.

Typhl. 458 - PIEDMONT - Ghislarengo (VC) - (Bridge on the Sesia) - 3-VI-63 - H.P. *Salix purpurea* and *S. alba*: 1♂ dry.

Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.): 1♂ 4♀♀ not prepared.

Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Ulmus campestris* [bushes under *Quercus* mentioned above (*sessiliflora*, editor's note)]: 2♂♂ 4♀♀ dry.

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant canopies): 1♂ 1♀ dry.

EDWARDSIANA kemneri (Ossiannilsson, 1942) (Fig. 11)

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Aemilanchier chamaedrys* - H.P. *Salix elaeagnos* - (*S. incana*): 3♂♂ 3♀♀ dry - 1♂ dryinidized (length mm 4) - Aedeagus spines different in length and inclination compared with those drawn by Ossiannilsson, 1981. **Drawings** of the aedeagus.

EDWARDSIANA lamellaris (Ribaut, 1931)

Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Quercus* sp. - (as *Typhlocyba*): 2♂♂: 1 in alcohol, 1 dry.

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata*, *Q. cerris* - (as *Typhlocyba*): 2♂♂ in alcohol.

Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal: Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 1♂ dry.

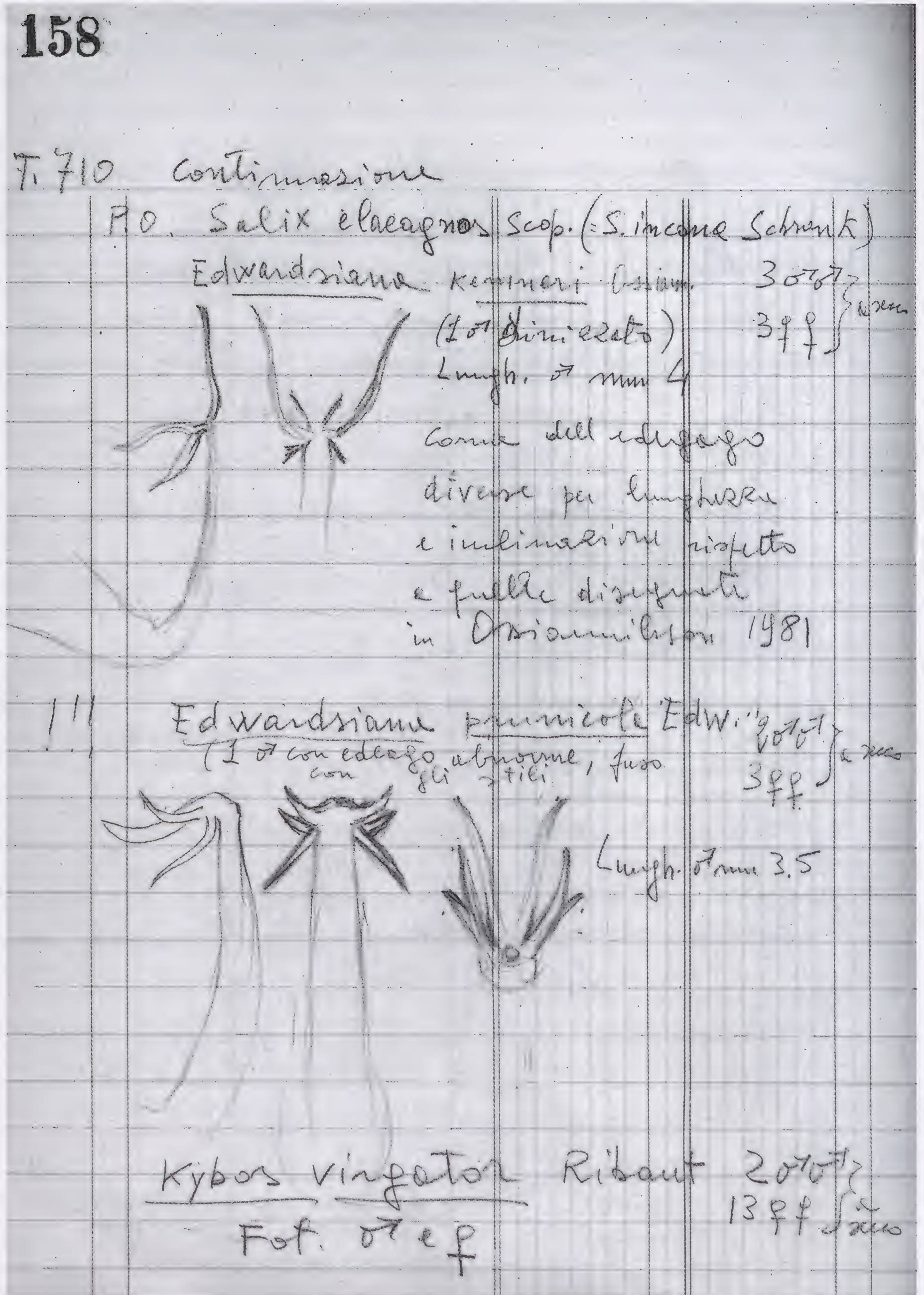


Fig. 11 - A notebook page with the sketches of the genitalia of *Edwardsiana kemneri* Ossiannilsson and *E. prunicola* Edwards

Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Quercus pedunculata*: 1♂ not prepared.

Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Loc. S. Giovanni - (Coppice thickets on the sides of the roads, protected by barbed wire) - 1-X-61 - H.P. *Quercus sessiliflora*: 1♂ 1♀ dry.

Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppices among *Rhamnus*): 1♂ 1♀ dry.

EDWARDSIANA lethierryi (Edwards, 1881)

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): !!! 3♂♂ (1 dry, 2 in alcohol) - The lateral branch of the anterior appendage, in lateral view, appears directed upwards and not forwards! Moreover the internal branch of the anterior appendage holds a spine - (Cfr. Typhl. 192). **Drawing.**

Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 1♂ 3♀♀ dry - The appendages of the aedeagus are slightly modified, just like those of the ♂♂ of Typhl. 188.

Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 1♂ dry. ♀♀ not prepared.

Typhl. 218 - PIEDMONT - Cantoira (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Acer pseudo-platanus* - (as *Typhlocyba*): 1♂ dry - !!!Aedeagus with the external branch of the anterior appendage of a particular shape.

Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 1♀ dry.

Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Carpinus betulus*: 1♂ dry.

Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Ulmus campestris*: 1♂ dry + ♀♀ not prepared.

Typhl. 449 - CAMPANIA - Surroundings of Avellino - 8-X-62 - (Leg. dr Viggiani) - H.P. *Corylus avellana*: 2♂♂.

Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Acer campestre* (near hedge of *Carpinus betulus* and a wood of *Ulmus*, *Ailanthus glandulosa*, *Quercus*, etc.): 6♂♂ 5♀♀ dry - phot. (...) Wild: ♂ mm 3.6, 20x; (...) Wild: ♀ mm 3.8, 20x.

EDWARDSIANA nigriloba (Edwards, 1924)

Typhl. 302 - PIEDMONT - Reaglie (TO) - (Turin hills) - (Towards Pino, on the right of the road driving up) - 18-V-61 - H.P. *Acer pseudoplatanus* - (as *Typhlocyba*): 4♂♂ 3♀♀ dry - (on the lower page of depigmented leaves. Some adults were reared from 5th instar nymphs. 1♀ is parasitized by *Aphelopus* - 1♂ 1♀ to Linnavuori).

Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Acer creticum* - (young plant with leaves more similar in thickness and shape to those of *A. campestre* than

- those of *A. pseudoplatanus*): 2♂♂ 1♀ dry - (On depigmented leaves with exuviae!).
- Typhl. 308 - VENETIA - Peschiera (VR) - 8-VI-61 - Hills (xerothermic areas) South of Peschiera (3-4 Km from the city), on the right of the road to Goito - H.P. *Rhus cotinus* - (Anacardiaceae): 1♂ 2♀♀ dry - Presence of many depigmented leaves, some of which with 5th instar nymphal exuvia and a newly emerged adult on the lower page.
- Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Acer monspessulanum*, *Ostrya carpinifolia*, *Quercus pubescens*, *Q. aegylops*: 1♂ dry.

EDWARDSIANA platanicola (Vidano, 1961)

- Typhl. 185 - LIGURIA - Sarzana (SP) - 10-IX-57 - Hotel yard and nearby town avenue - Leaves extraordinarily depigmented, in particular close to the bigger veins - H.P. *Platanus ?acerifolia* - (as *Typhlocyba*): 30 adults of which 21♂♂ (6 dry, 5 in a plastic tube, 10 in alcohol), 9♀♀ (2 dry, 3 in plastic tubes, 4 in alcohol) + nymphs and exuviae in alcohol - Prope *T. tersa* (cfr. Ribaut II, fig. 1, 196-1, 198) length mm 3.10-3.40 - Basic colour whitish, like in the other species of this group. Tegmina of a lemon yellow colour in the ♂ (in the ♀ it is very yellow only on the clavus), also with the apical cells and a small distal area of the cubital cell uniformly infumate. Apex of the sheath of the terebra blackish brown. Appendix of the aedeagus and styli very similar to the corresponding ones of *T. tersa* - phot. 4,349: ♂ dorsal; 4,350: tegmen and wing of the ♂. **Drawings** of aedeagus and genital blades.
- Typhl. 203 - LIGURIA - Genova - (Via Canevari, leading to Staglieno) - (Cfr. Typhl. 185, 210, 224) - 2-X-57 - H.P. *Platanus occidentalis*? - (as *Typhlocyba*): I collected 113 adults of which 57♂♂ 56♀♀ (some dry, others in alcohol, others in a plastic tube) - Paratypes. Presence of plenty adults (even 35-40 on the bigger leaves) and of juveniles of all instars (in alcohol) - Oviposition: in great number in the leaf stalk and also in the main veins (lower page); less abundant in the secondary veins. There are egg-layings also in the main veins on the upper leaf page. Phot. 4,406: mature nymph; 4,407: neanids of + instars; 4,408: ovipositions; 4,409-4,411: depigmented leaves - 16-X-57 - On the leaves left in rearing until today I find many juveniles of all instars (in alcohol) and several oophagous mymarids in alcohol.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Platanus occidentalis* - (as *Typhlocyba*) - (Cfr. Typhl. 185, 203, 224): 10♂♂ (3 dry, 7 in a plastic tube), 8♀♀ (3 dry, 5 in a plastic tube) - Holotypus-Allotypus-Paratypus - N.B.: only 3♀♀ show the dorsum yellow. In the others the tegmina are more or less uniformly yellow - 2 of the ♂♂ in a plastic tube are parasitized by *Aphelopus*.
- Typhl. 224 - (Cfr. Typhl. 185, 203, 210) - PIEDMONT - Turin - (Corso Massimo d'Azeglio) - 18-X-57 - H.P. *Platanus occidentalis* - (as *Typhlocyba*): 12♂♂ 24♀♀ in part dry and part in alcohol + juveniles of all instars, in alcohol + 13 oophagous mymarids in alcohol - I isolated 20 5th instar nymphs, of which on 19/24-X-57 ? 10♂♂ 10♀♀ in alcohol with the previous ones - Cfr. Sorauer 1956, page 231: *Erythroneura mac-*

ulata Gillenhal (127, on apple tree and *Platanus occidentalis*).

- Typhl. 275 - PIEDMONT - Turin - (Valentino Park) - 28-X-58 - (as *Typhlocyba*) - H.P. *Corylus avellana*: presence of ♂♂ ♀♀, 5♂♂ dry - H.P. *Salix alba*: presence of some ♂♂ ♀♀ not prepared - H.P. *Platanus occidentalis*: presence of many adults (♂♂ ♀♀ with a 1:1 ratio) and juvenile stages (newly hatched neanids included), both on the leaves of the low part of the canopy (m 2) and on those of the apex (m 10), neanids, nymphs, and adults in alcohol - 30♂♂ 30♀♀ reared on *Lonicera*, *Platanus*, *Salix alba* and *Corylus avellana* - 20♂♂ 20♀♀ put on *Rubus* and *Platanus* - 10♂♂ 10♀♀ put on *Rubus* - Many adults, neanids, and nymphs in alcohol - 30♂♂ 60♀♀ in a plastic tube. Phot. 6,731-6,733: juveniles and adults; 6,734: ♀.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♂♂ dry.
- Typhl. 281 - PIEDMONT - Turin - (Valentino Park) - 17-XI-58 - H.P. *Platanus* - (as *Typhlocyba*): presence of many adults (♂♂ ♀♀ with a 1:1 ratio) on the lower page of the few still green leaves - 20♂♂ 20♀♀ reared on *Rubus fruticosus* to make them lay eggs.
- Typhl. 282 - PIEDMONT - Barone Canavese (TO) - 20-XI-58 - H.P. *Corylus avellana* - (as *Typhlocyba*): !!! 1♂ dry.
- Typhl. 291 - LOMBARDY - Milan - (Viale Romagna) - 5-X-59 - H.P. *Platanus* - (as *Typhlocyba*): presence of many adults and juveniles of all instars - Very depigmented leaves.
- Typhl. 291 bis - LOMBARDY - Goito - Sacca (MN) - 21-VII-60 - H.P. *Platanus* - (as *Typhlocyba*): presence of several adults and nymphs of 4th and 5th instar of the 1st generation - The leaves attacked (mostly the proximal ones) are relatively few, but are very depigmented - I classified exactly the species by examining many ♂♂ - Not preserved.
- Typhl. 309 - LOMBARDY - Goito (MN) - (road to Peschiera) - 8-VI-61 - H.P. *Platanus occidentalis* (bushy plants with foliage mixed with hedges of *Lonicera* and *Rubus* mentioned above (*Rubus caesius*, editor's note)) - Leaves of *Platanus* a little depigmented: 4♀♀ of which 2 healthy and 2 parasitized by *Aphelopus* - Parasitized specimens, dry with those of Typhl. 310 and 311.
- Typhl. 310 - LOMBARDY - Goito (MN) - (Hamlet Sacca) - 8-VI-61 - H.P. *Platanus occidentalis* - investigated plenty plants, but found only 1♂ 4♀♀ (of which 1♂ and 1♀ parasitized by *Aphelopus*) on depigmented leaves; on one of such leaves there was the exuvium of the last instar nymph of *E. platanicola* - Parasitized specimens, dry with those of Typhl. 309 and 311.
- Typhl. 311 - VENETIA - Peschiera (VR) - (Square in front of the barracks) - 8-VI-61 - H.P. *Platanus occidentalis* (branches of old trees reachable from the ground): 1♂ 5♀♀ (of which 1♂ 2♀♀ parasitized by *Aphelopus*) on the lower page of depigmented leaves. In one of such leaves there was the exuvium of a last instar nymph. Parasitized specimens dry with those of Typhl. 309 and 310.
- Typhl. 312 - PIEDMONT - Turin - (Valentino Park) - 9-VI-61 - H.P. *Platanus occidentalis*, tall trees of Corso Massimo d'Azeglio: 2♀♀ dry - On non depigmented leaves.

- Typhl. 317 - SICILY - Catania - City and Nicolosi (road of the Etna) - Iblei mountains - 10-VII-61 - H.P. *Platanus*: 1♂ 2♀ ♀ dry - In Catania, Viale XX Settembre, presence of already very depigmented leaves on the lower page of which there are even about fifty juvenile stages of different instars. Concerning the adults, at Nicolosi I collected only ♀ ♀ (7), while in Catania I collected about twenty ♀ ♀ and 1♂ (newly hatched!) - Maximum length of the adults 3 mm only - + Mascalucia (7♀ ♀ - depigmented leaves).
- Typhl. 323 - SARDINIA - Sassari - Jolly Hotel - 10-VIII-61 - H.P. *Platanus orientalis*: 3♂ ♂ 8♀ ♀ dry.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste city - 3-X-61 - H.P. *Platanus occidentalis* (very depigmented leaves): 14♂ ♂ 15♀ ♀ dry.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Platanus occidentalis*: 6♂ ♂ dry - Strong infestation, very depigmented leaves, hosting each one dozens of individuals of the different instars. Topped plants, with a very thick foliage. I saw plane trees similarly attacked at Portoferraio.
- Typhl. 469 - FRANCE - Auch - Toulouse - Carcassonne - Narbonne - Bézier - Montpellier - Marseille - Nîmes - Avignon - Cannes - Nice - 30-VIII-63 - H.P. *Platanus occidentalis* (city avenues): everywhere the presence of adults and juveniles - leaves more or less depigmented according to places - 2♂ ♂ 4♀ ♀ dry (specimens from Toulouse).
- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. plane tree: 5♂ ♂ 3♀ ♀ dry to Papevic.
- Typhl. 501 - GREAT BRITAIN - London - British Museum Natural History (Park) - 15-VII-64 - H.P. *Platanus occidentalis* (leaves at 3-4 m of height remarkably depigmented perhaps by piercings of *E. platanicola*).
- Typhl. 522 - JUGOSLAVIJA - Split - (Experimental field of the Institut Za Jadranske Kulture) - 2-IX-64 - H.P. *Platanus occidentalis*: ♂ ♂ ♀ ♀ and juveniles not prepared.
- Typhl. 602 - PIEDMONT - Turin - (Corso Massimo d'Azeglio) - 26-XI-80 - H.P. *Platanus occidentalis*: 2♀ ♀ not prepared.
- Typhl. 657 - PIEDMONT - Turin - (Valentino Park) - 8-VIII-83 - H.P. *Platanus occidentalis*: 3♂ ♂ dry 3♀ ♀ in a plastic tube (1♂ with larva of pipunculid) - Several specimens emptied by *Aphelopus*. Rearing leaves with eggs to get *Anagrus*.
- Typhl. 800 - SICILY - Augusta (SR) - (Bridge near river) - (Between river Càntera and river Mulinello: fenced) - 2-VIII-85 - h 18,30-20 - H.P. *Platanus orientalis* (wild) - Remarkable depigmentations - *Corythucha ciliata* missing.
- Typhl. 884 - FRANCE - Toulouse - 27-X-86 - Leg. Arzone-Alma - Public gardens - Palais des sports - H.P. *Alnus cordata*: 17♂ ♂ 14♀ ♀ dry (coming from *Platanus*) - (Preparation 1-XI-86: 1♂ 8♀ ♀ were still alive, in glass tubes with a leaf of *A. cordata* - H.P. *Corylus* sp. (ornamental): 2♂ ♂ dry, 16♀ ♀ not prepared - H.P. *Koelreuteria paniculata* (family Sapindaceae: bladder tree): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 909 - GREECE - Naoussa - Virginia - 7-X-87 - H.P. *Platanus orientalis*: nymphs, depigmented leaves.

Typhl. 911 - PORTUGAL - Amarante (Oporto) - 10-VI-88 - (Along the river) - Preparation dr Alma - H.P. *Platanus occidentalis*: 3♂♂ 5♀♀ dry + nymphs + 4♂♂ 4♀♀ dryinidized + eggs in veins and emergence holes of *Anagrus*.

EDWARDSIANA plebeja (Edwards, 1914)

Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*) - (Topped plants on the right and hedge on the left of the road leading to the pheasant's reserve) - !!! (= *divergens* Ribaut): 3♂♂ (2 dry, 1 in alcohol).

Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Ulmus campestris* - (as *Typhlocyba*) - (= *divergens* Ribaut): 4♂♂ healthy dry, 2♂♂ with *Aphelopus* (abnormal branching of the aedeagus) dry.

Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Ulmus campestris*: 3♂♂ 4♀♀ dry.

Typhl. 582 - PIEDMONT - Turin - 21-VI-78 - H.P. ?*Ulmus*: 1♂ dry.

Typhl. 908 bis - GREECE - Thessaloniki - 7-X-87 - H.P. *Ulmus* sp. (tree line): 2♂♂ 7♀♀ dry + nymphs - Very depigmented leaves.

EDWARDSIANA prunicola (Edwards, 1914)

Typhl. 113 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 18-VI-57 - H.P. *Cannabis sativa* - (as *Typhlocyba*) (= *Barbata* Ribaut): 1♂ 1♀ not prepared (arrived from elm - Cfr. Typhl. 115) - In study.

Typhl. 115 - PIEDMONT - Carignano-Salsasio (TO) - (On the right of the road Carignano-Carmagnola, near the bridge on the Po) - 21-VI-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*) - (= *Barbata* Ribaut) - (Cfr. Typhl. 113): 7♂♂: 3 dry, 4 in alcohol + 11♀♀ (together with *T. cruenta*) - In alcohol with ♂♂ of *T. prunicola*.

Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*) - (= *Barbata* Ribaut): 7♂♂ (3 dry, 4 in alcohol).

Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Salix caprea* - (as *Typhlocyba*): 1♂ 1♀ dry.

Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*) - (= *Barbata* Ribaut): 1♂ dry.

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Rosone (TO) - (Orco Valley) - 9-IX-59 - H.P. *Salix purpurea* - (as *Typhlocyba*) (= *Barbata* Ribaut): 4♂♂ 1♀ dry.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - m 1,120 - (Locality between Ruinaux and Fénille) - 12-IX-59 - H.P. *Ulmus montana* - (as *Typhlocyba*) - (*Montanae* n.sp.?) - (*Barbata* Ribaut) (*prunicola* Edwards), det. Vidano 1981: 2♂♂ dry - (*Typhlocyba* of the *T. rosae* group) -

Adult of an intense lemon yellow colour like *T. cruenta* var *Douglasi* - Shaft of the aedeagus slightly compressed both dorsally and in the anterior prominence - 6 branches at the end of the aedeagus. All emerging from the end of the aedeagus - All the branches are directed anteriorly, one median simple couple. One lateral bifid couple. 3 **drawings** of the aedeagus.

Typhl. 471 - FRANCE - Apt - (Vaucluse) - 31-VIII-63 - H.P. *Salix alba* (near a pond): 1♂ not prepared.

Typhl. 596 - PIEDMONT - Castel Boglione (AT) - 6-IX-80 - H.P. *Salix alba* (near a vineyard): 1♂ dry.

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence of also *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Salix elaeagnos* (= *S. incana*): !!! 2♂♂ 3♀♀ dry (1♂ with an abnormal aedeagus, fused with the styli) - ♂ length mm 3.5 - **Drawings** - H.P. *Alnus incana*: 1♂ - **Drawings**.

Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Salix alba* and *Salix* spp. (along the Tanaro): 1♂ dry 2♀♀ not prepared.

EDWARDSIANA rosae (Linnaeus, 1758)

Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree - (as *Typhlocyba*): 4♂♂ (3 of which parasitized by *Aphelopus*) and 2♀♀ (det. December 1960) not prepared.

Typhl. 01 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 11-IX-55 - H.P. apple tree - (as *Typhlocyba*): ♂♂♀♀ not prepared.

Typhl. 02 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 20-IX-55 - H.P. apple tree - (as *Typhlocyba*): 6♂♂ not prepared "from nymphs on leaves" - presence of many nymphs of both species (also *Ribautiana debilis*, editor's note).

Typhl. 03 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 10-X-55 - (as *Typhlocyba*) - H.P. apple tree: ♂♂♀♀ not prepared - Caluso (TO) - (Vidano's orchard) - H.P. *Prunus domestica*: 3♂♂ 3♀♀ not prepared.

Typhl. 1 - PIEDMONT - Bussoleno (TO) - 13-X-55 - H.P. *Malus communis* - (as *Typhlocyba*): 1♀ not prepared.

Typhl. 9 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Rubus fruticosus*, along an etiolated hedge separating Bianco's and Scapino's orchards - (as *Typhlocyba*): ? 2♀♀ prepared dry.

Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. bushes of *Quercus* - (as *Typhlocyba* gr. ?*rosae*): 2♀♀ dry (cfr. Typhl. 15, specimens on brambles).

Typhl. 15 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): !! 6 individuals (3♂♂ 3♀♀); all 3♂♂ are parasitized by dryinids - in alcohol 2♂♂ 1♀.

Typhl. 16 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Populus euroamericana* (in the dry stream bed) - (as *Typhlocyba* gr. ?*rosae*): 2♀♀ dry - (Cfr. Typhl. 14).

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T. 710 continuation

P.O. *Alnus incana* (Lungo F. Tamaro)*Edwardsiana saror* Linn. 1 ♂*Edwardsiana prunicola* Edw. 1 ♂*Edwardsiana* spp.*Edwardsiana geometrica* Schrank*Fagocytba alnisuga* Arzone*Alnetoidia alneti* Dablb*Empoasca vitis* Gothe

8 ♀♀ non pup.

1 ♂ a secco

1 ♂ a secco

1 ♂ 2 ♀♀ a secco

1 ♀ a secco

Fig. 12 - A notebook page with the sketches of the genitalia of *Edwardsiana prunicola* Edwards compared with those of *E. plebeja*

- Typhl. 17 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. different herbaceous species among a *Quercus* coppice - (as *Typhlocyba* gr. ?*rosae*) - (Dark abdomen! - ?*ulmi*): 1♂ 1♀ dry - (Cfr. the oak species: Typhl. 14).
- Typhl. 19 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Salix caprea* - along a ditch with water - (as *Typhlocyba*): 11 individuals uniformly yellowish (belonging very probably to the species corresponding with Typhl. 18, see) - of which 4♂♂ 7♀♀ (2 of which with a dryinid larva) - in alcohol 3♂♂ 4♀♀.
- Typhl. 20 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Populus alba*, along a ditch with water - (as *Typhlocyba*): 1♂ belonging to the 1st species listed in Typhl. 18 (*T. hippocastani*, editor's note) and in Typhl. 19 (*T. rosae*, editor's note) - Prepared dry, not preserved (Vidano, 1960).
- Typhl. 25 - PIEDMONT - Caluso (TO) - (Picco Giovanni's apple grove) - (Briamara) - 23-X-55 - H.P. *Malus communis* var Bella di Roma and Firminello - (as *Typhlocyba*): presence of a fair number of adults above all on the low part of the canopies, still thick and green, and even in great quantity on the lower page of the leaves of suckers growing from the collar zone of the apple trees. There are still some 5th instar nymphs. The adults are presently mostly parasitized by dryinid larvae. Of 52 individuals collected (30♂♂ and 22♀♀) 44 are attacked (27♂♂ and 17♀♀). Shaking the foliage, the individuals hosting the mature parasite larva cannot fly anymore and fall slowly on the ground. On the lower apple leaf page there are many adults (from 1 to even 6-7) firmly fixed with the mouth stylets and legs, but dead and abandoned by the parasite's larva. Until almost 1 hour before abandoning the victim (still able until then to feed and, if pushed, to walk or even make short and heavy flights) the larva appears regularly included in its last exuvia. At the end it breaks dorsally in a longitudinal way permitting the larva to exit after having emptied the victim; the latter ceases any activity since this moment. The dryinid larva emerges gradually with its back, obliging the victim to divaricate more or less widely its wings; but before coming definitively out, it empties accurately the leafhopper's thorax and abdomen respecting only the integument. About twenty dryinid larvae have regularly cocooned between the apple leaf and the glass tube or between two leaves (reared). 3 dryinid larvae, 1 cocooned dryinid larva in alcohol - 14-VIII-56 - Extracted from the rearing (upside down glass tubes half buried in the ground) half a dozen of dryinid adults dead since a long time and now ruined. In alcohol with some cocoons. 5 more cocoons, fixed to a leaf are prepared dry - Classified by Vidano on 26-XII-60.
- Typhl. 36 - PIEDMONT - Funghera (TO) - (Near the station) - 28-IX-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): !! 1♂ 1♀ dry.
- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia and Bianco's properties) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): ! 2♂♂ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 49 - PIEDMONT - Caluso (TO) - (Barbisin Monti's apple grove) - 14-X-56 - H.P. *Malus communis* - (as *Typhlocyba*) - 17 individuals in alcohol: 5♂♂ (3 with dryinid larvae) 12♀♀ (3 with dryinid larvae) - on the lower page of apple leaves there are

still several nymphs.

- Typhl. 60 - PIEDMONT - Caluso (TO) - (Salveti's thicket - Regione Aiè) - 20-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂, 1♂ *T. frustrator*, 5♀♀ *T. gr. rosae* in alcohol together.
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Typhlocyba*): 2♂♂ dry.
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. *Malus communis* - (as *Typhlocyba*): 8♂♂ (3 dry, 5 in alcohol) with 18♀♀ not determined: probably of *T. rosae* and of *T. australis* mixed.
- Typhl. 72 - PIEDMONT - Caluso (TO) - (Monti-Barbisin's apple grove) - 18-XI-56 - H.P. *Malus communis* - (as *Typhlocyba*): 12♂♂ (2 dry, 10 in alcohol) *Typhl. group rosae* (*australis* and *rosae* mixed 40♀♀ in alcohol) - Several adults of *T. rosae* are parasitized by a dryinid larva (?*Aphelopus*) - Over twenty larvae are reared (rearing 1,184); 6 mature larvae (4 free and 2 still fixed to the victim) in alcohol.
- Typhl. 73 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 24-XI-56 - H.P. apple tree - (as *Typhlocyba*): 11♂♂ (3 dry, 8 in alcohol) - several adults (above all ♀♀: 4 dry) are parasitized by a dryinid (?*Aphelopus*) - phot. 3,631, 3,631 bis: 2♀♀ parasitized - In alcohol 30♀♀ of *T. rosae* and *T. australis* together.
- Typhl. 79 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's and Tululena's hedge and field) - 30-III-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): !newly hatched neanids.
- Typhl. 85 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's and Tululena's hedge and field, hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): The "present" host plant is bramble, while in autumn it was grapevine. The different adults are reared on brambles, but it is difficult that the ♀♀ will lay eggs, because their host plant should be *Salix* (Ribaut). Now I find very few adults of other typhlocybrids on brambles (besides *Erythroneura simplex*, editor's note). Neanids and nymphs of ?*T. rosae* are fairly abundant.
- Typhl. 96 - PIEDMONT - Caluso (TO) - (Bramble hedge, Tululena's and Podio Guglielmo's field) - 22-V-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 4♂♂ 2♀♀ (3♂♂ dry) - 1♂ dry aberration *bifida* nova? - **Drawings** of the aedeagus.
- Typhl. 103 - PIEDMONT - Bussoleno-S. Giorio (TO) - 31-V-57 - H.P. *Rosa canina* - (as *Typhlocyba*): 3♂♂ 1♀ dry.
- Typhl. 167 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 19-VIII-57 - H.P. *Agri- monia eupatoria* - (as *Typhlocyba*) - Several depigmented leaves - Presence of some adults of the following species: *Erythroneura angusta*, *Typhlocyba rosae*, *T. tenerrima* (♂♂♀♀ not prepared).
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Waste- land on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*): 2♂♂ dry - *T. gr. rosae*: 28♀♀ not prepared - H.P. *Salix purpurea* - (as *Typhlocyba gr. rosae*): 10♀♀ not prepared, no ♂♂.
- Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ not prepared.
- Typhl. 245 - LOMBARDY - Pavia - (Botanical gardens) - 7-VI-58 - (as *Typhlocyba*) - H.P. *Rosa culta*: 2♂♂ 3♀♀ - H.P. *Crataegus (oxyacantha?)* (very depigmented

leaves): 2♂♂ 4♀♀ all not prepared.

Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Alnus incana* (near the stone grinder) - *Typhlocyba* gr. *rosae* (with *T. staminata*, editor's note): 5♀♀ measuring mm 4, of an intense lemon yellow colour.

Typhl. 256 - AOSTA VALLEY - 24-VII-58 - Livionaz (AO) - (Valsavaranche) - H.P. *Rosa canina* - (as *Typhlocyba*): 4♂♂ dry reared from as many nymphs - *rosaesugans* Cerutti?: 1♂ (cfr. *rosaesugans* Cerutti 1939 - Cfr. *rhodophila* Cerutti 1937) - 1♂ aedeagus with 5 processes - (Cfr. Typhl. 171) - In alcohol with 4♀♀. I reared ♂♂ and ♀♀ from nymphs mixed with those from which the ♂♂ of *T. rosae* mentioned above emerged. **Drawings.**

Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Alnus glutinosa*: 2♀♀ not prepared.

Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Rosa canina* - (as *Typhlocyba*): 3♂♂ 2♀♀ dry - All mm 4 long!!! - phot. 6,394-6,395: ♂.

Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - m 1,000 - (Dora Riparia Valley) - 22-X-58 - (as *Typhlocyba*) - H.P. *Salix purpurea* (small low and very leafy bushes): 1♂ - Bussoleno (TO) - (On the left of the military road) - H.P. *Salix alba*: 1♂ - H.P. *Quercus sessiliflora*: 1♂ - All not prepared.

Typhl. 278 - PIEDMONT - Turin - (road of S. Vito) - (Cfr. Typhl. 278-279) - 27-V-59 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♂♂ 3♀♀ dry - *T. gr. rosae*: 30♀♀ not prepared.

Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito) - 14-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ dry - *T. gr. rosae*: 41♀♀ not prepared.

Typhl. 282 - PIEDMONT - Caluso (TO) - (Vidano's home) - 20-XI-58 - H.P. *Rosa culta* - (as *Typhlocyba*): 4♂♂ dry, 30♀♀ (2 dry).

Typhl. 284 - PIEDMONT - Turin - (Hill - road of S. Vito) - (Cfr. Typhl. 278-279) - 27-V-59 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ - *T. gr. rosae*: 5♀♀ not prepared.

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - (as *Typhlocyba*) - H.P. *Alnus viridis*: !! 4♂♂ 2♀♀ - Noasca-Ceresole (TO) - (Curves) - m 1,200-1,300 - H.P. *Betula alba*: 4♂♂ 2♀♀ - H.P. *Salix purpurea*: 7♂♂ 1♀ - All not prepared.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - H.P. *Alnus viridis* - (as *Typhlocyba*): 2♂♂ 2♀♀ not prepared.

Typhl. 293 - TRENTINO-ALTO ADIGE - Material of the Osservatorio per le Malattie delle Piante - Bolzano - Re. Letter reference no. 490 pos. 4-5 of 18-X-60 - Dr Gaetano Bua - Appiano (Bolzano) m 500 ~ - October 1960 - (as *Typhlocyba*) (*Edwardsiana*) - H.P. rose: 103♂♂ (60 in a plastic tube), 312♀♀ (60 in a plastic tube) - (no parasitized specimens) - H.P. *Pyrus communis*: 15♂♂ 2♀♀ (2♂♂ 2♀♀ dry) - H.P. *Malus communis*: 24♂♂ 71♀♀ not prepared - Pianizza (BZ) - m 460 ~ - October 1960 - H.P. *Malus communis*: 38♂♂ 64♀♀ not prepared - Very depigmented apple leaves (silvery white), with a great number of last instar nymphal exuviae on the lower page (even 8-10 per leaf) and with some 4th and 5th instar nymphs - there were no parasitized specimens among the different samples.

- Typhl. 295 - TRENTINO-ALTO ADIGE - Material of the Osservatorio per le Malattie delle Piante - Bolzano - Re. Letter reference no. 490, pos. 4-5 of 18-X-60 - Dr Gaetano Bua - Appiano (Bolzano) m 500 approx. - October 1960 - H.P. *Rubus fruticosus* (in the middle of vineyards) - (as *Typhlocyba*): 21 ♂ ♂ 326 ♀ ♀ .
- Typhl. 314 - CALABRIA - Crotone (KR) - 8-VII-61 - (Ente Riforma farm) - H.P. *Malus communis* - (as *Typhlocyba*): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - (Locality Cacciatore) - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna*: 2 ♂ ♂ 8 ♀ ♀ not prepared - H.P. *Rosa canina*: 1 ♂ 5 ♀ ♀ not prepared.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 1 ♂ not prepared.
- Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Rosa culta*: presence of plenty ♂ ♂ ♀ ♀ adults (laying eggs).
- Typhl. 379 - PIEDMONT - Caluso (TO) - 10-XII-61 - H.P. *Rosa culta*: 8 ♀ ♀ not prepared.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Rubus fruticosus*: 1 ♂ 1 ♀ not prepared.
- Typhl. 460 - PIEDMONT - Cesana (TO) - (Monti della Luna) - (Dora Riparia Valley) - 12-VIII-63 - H.P. *Rosa ?canina* (very depigmented leaves): 3 ♂ ♂ 3 ♀ ♀ dry (adults and juveniles in great number).
- Typhl. 473 - PIEDMONT - Alpinia - Stresa (VB) - (Cfr. Typhl. 458) - 17-IX-63 - H.P. *Sorbus aria*: 1 ♂ not prepared.
- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. nut tree: 1 ♂ 2 ♀ ♀ dry to Papevic.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Crataegus monogyna*: 1 ♀ dry.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Crataegus monogyna* (aberration "manca": 1 parasitized ♂ dry) - H.P. *Malus pumila*: 2 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa (?canina)* and *Sambucus ebulus* - H.P. *Rosa ?montana* or *?pendulina*: 1 ♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Sorbus aria*, with *Quercus pubescens*, *Corylus* and *Alnus cordata*: 1 ♂ 3 ♀ ♀ dry - H.P. *Carpinus betulus*: ? 5 ♀ ♀ not prepared - H.P. *Quercus pubescens*, *Q. aegylops*: ? 2 ♀ ♀ not prepared.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - beginning of the North-East slope of Dinara Planina - Dolinas, etc. - H.P. *Crataegus monogyna* and *Rosa canina*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 528 bis - JUGOSLAVIJA - Lovćen (Montenegro) - m 1,300 - (Locality near Njeguši, on the road Kotor-Cetinje) - 7-IX-64 - H.P. *Malus pumila* - (many adults:

parasitized): 2♂♂ 2♀♀ dry.

Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P.

Alnus incana: 1♂ dry.

Typhl. 623 - PIEDMONT - Sauze d'Oulx (TO) - m 1,500 - 21-VIII-81 - H.P. *Rosa* sp.: 1♂ dry.

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Sorbus aucuparia*: ? 2♀♀ dry.

Typhl. 632 - FINLAND - Helsinki - 13-IX-81 - H.P. *Prunus cerasus* (not far from the above mentioned linden): ? 2♀♀ not prepared. No *Alnetoidia alneti*.

Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 1♂ (dryinidized) not prepared.

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Sorbus aucuparia*: ! 2♂♂ 2♀♀ (reared from nymphs) not prepared.

Typhl. 746 - LOMBARDY - Rovescala (PV) - May-June 1984 - Material in alcohol - Leg. Prof. Domenichini - Rovescala (PV) - 30-V-84 - H.P. grapevine: 1♂.

Typhl. 886 - PIEDMONT - Predosa (AL) - 1-XI-86 - H.P. *Rosa culta* (poorly depigmented leaves - No nymphs and exuviae of *Macrosiphum rosae* on leaves): 10♀♀ not prepared - Adults probably coming from other Rosaceae - H.P. *Rosa canina* (poorly depigmented leaves - No nymphs and exuviae of *Macrosiphum rosae* on leaves): 4♂♂ 12♀♀ not prepared - Adults probably coming from other Rosaceae.

EDWARDSIANA rosaesugans (Cerutti, 1939)

Typhl. 171 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavaranche) - m 1,600 - 28-VIII-57 - (Leg. Sampò) - H.P. *Rosa* ?*canina* - Rifugio Benevolo, m 2,000 - (Cfr. Claridge-Wilson 1978) - Length of ♂♀♀ mm 3.6-3.8 - 1♂ 2♀♀ dry - (Cfr. *rhodophila* Cerutti 1939) - (Cfr. Typhl. 256) - Species key no. 37 of the genus *Typhlocyba* in Ribaut - 3 **Drawings** of the aedeagus.

Typhl. 256 - AOSTA VALLEY - Levionaz (AO) - (Valsavaranche) - 24-VII-58 - H.P. *Rosa canina*: ? 1♂ dry - (Cfr. *rosaesugans* Cerutti 1939 and *rhodophila* Cerutti 1939) - Aedeagus with five processes - (Cfr. Typhl. 171) - In alcohol with 4♀♀; both the ♂ and the ♀♀ reared from nymphs mixed with those from which the ♂♂ of *T. rosae* mentioned above emerged (see *Edwardsiana rosae*, editor's note).

EDWARDSIANA salicicola (Edwards, 1885)

Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - H.P. *Populus tremula* - (as *Typhlocyba tremulae* n.sp.) - (*salicicola* Ribaut 1936?) - (Ossiannilsson 1981) - (Small plants along the roadside): 1♂ dry - 3 **Drawings**: aedeagus very similar to that of *T. salicicola* Edwards, but with the anterior appendages displayed differently - Probably it is a n.sp. - (Cfr. Typhl. 633).

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Salix caprea*?: 2♀♀ dry.

Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Salix caprea*!: 1♂ 6♀♀ dry.

EDWARDSIANA sardoa Arzone, 1975

Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Alnus glutinosa* (H.P. occasional: day of strong wind): 1♂ 1♀ dry - (Cfr. Typhl. 409-492) - (close to *E. platanicola*, *tersa*, *diversa*, and *kemneri* from which it differs both by the shape of the shaft of the aedeagus and by the shape and position of the processes of aedeagus) - **Drawings**.

Typhl. 409 - SARDINIA - Arzachena (OT) - m 80 - 15-VIII-62 - H.P. *Alnus glutinosa* (on the left of the road Palau-Olbia, before Arzachena). Big trees before a ditch with stagnant water. Leaves of the foliage thick near the trunk, at 1-2 m from the ground, very depigmented and with exuviae of 5th instar nymphs still fixed: ? 1♀ dry - (Cfr. Typhl. 404).

Typhl. 492 - SARDINIA - Fonni (NU) - (Bridge R. Ilodei, road Fonni-Mamoiada) - m 1,000 - 31-V-64 - H.P. *Alnus glutinosa*: 1♂ in alcohol - (Cfr. Typhl. 404-409).

EDWARDSIANA soror (Linnavuori, 1950)

Typhl. 66 - (Cfr. Typhl. 62) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris*, *Q. pedunculata* (strong suckers with a still green foliage) - (as *Typhlocyba* n.sp. gr. *rosae*) - (Det. Vidano 1981): 1♂ 1♀ in alcohol (cfr. Typhl. 193, 286) - !The genital appendages of the ♂ were put in the same tube with the body of ♂ and ♀. ♂ length mm 3.6; ♀ mm 3.8 - The morphological characters make me place the following species in the vast group of *T. rosae* - The ♂ has an elongated aedeagus, strongly curved dorsad, with a decreasing diameter, very compressed on the sides in the proximal part and slightly compressed antero-posteriorly in the distal part; the hole is apical, near which the following couples of branches take origin: one lateral, simple, short, slightly curved towards the median line and placed on a plane almost parallel to the axis of the distal part of the aedeagus; another one anterior, bifid at its end, diverging from the central axis, falciform, directed proximally downwards and then harmoniously curved upwards, with a secondary branch or spur (that makes it in fact bifid) emerging at about one third from the apex and directed antero-infero-centripetally. Reading the *Typhlocyba* key by Ribaut one goes from number 30 (even number of branches of the aedeagus), to number 32 (aedeagus with 6 branches), to number 37 (all appendages taking origin from the apex of the aedeagus), to number 38 (anterior edge of the aedeagus not lamellar), to number 39 (lateral branches on a plane parallel to the axis of the end of the aedeagus), to number 42 (lateral branches shorter than the anterior ones), where one finds *Typhlocyba divergens*. It is at this point that one must include *Typhlocyba* n.sp. (*soror*, editor's note) modifying the key at number 42 as follows: lateral branches slightly shorter than the others, in the number of 4 since their origin, which are directed forwards and are a little divergent one from the other (*Typhlocyba divergens* Ribaut) - Lateral branches over 4 times shorter than the others, which are falciform, with a ventral convexity, in the number of 2 at the origin and bifid at the end (*Typhlocyba* n. sp.) (*soror*, editor's note) - **Drawings** of the aedeagus lateral, dorsal, ventral.

Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba confusa* n.sp.) - (Det. Vidano 1981) - ♂ length

mm 3.70 - Vertex of the ♂ rounded - General body colour pale yellowish - Tegmina with the apical cells slightly infumate - 1 ♂ dry - (Cfr. Typhl. 66 and relative **drawings**) - The closest species as per shape of the aedeagus seems to be *T. diversa* (cfr. Typhl. 286) - **Drawings** of *T. tersa*.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - 12-IX-59 - m 1,120 - (Locality between Ruinaux and Fénille) - H.P. *Ulmus montana* - (as *Typhlocyba alpina* n.sp.) - (Det. Vidano 1981): 1 ♂ dry - (Cfr. Typhl. 66, 193) - 2 **Drawings**.

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence of also *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Ame-lanchier chamaedrys* - H.P. *Alnus incana* (along the river Tanaro): 1 ♂.

EDWARDSIANA spinigera (Edwards, 1924)

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *Typhlocyba*) - H.P. *Corylus avellana*: 6 ♂ ♂ (2 dry, 4 in alcohol) - 3 ♀ ♀ not determined in alcohol - (1 ♂ to Linnavuori, September 1961) - H.P. *Carpinus betulus*: 5 ♂ ♂ (1 dry, 4 in alcohol).

Typhl. 190 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 1 ♂ dry.

EDWARDSIANA staminata (Ribaut, 1931)

Typhl. 133 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie) - 10-VII-57 - H.P. *Tilia cordata* - (as *Typhlocyba*): 1 ♂ dry - The aedeagus is abnormal: it has only one of the small lateral branches and the anterior branches are decidedly not ogival - (near the H.P. there are some hazelnuts).

Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - (as *Typhlocyba*) - H.P. *Corylus avellana* (wild): !!! 5 ♂ ♂ (1 dry, 4 in alcohol), 4 ♀ ♀ (2 dry, 2 in alcohol) - H.P. *Alnus glutinosa*: 1 ♂ not prepared (from *Corylus*).

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Corylus avellana* - (as *Typhlocyba*): 2 ♂ ♂ dry.

Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - Presence of a great number of *Dikraneura hieracii* on different herbaceous and meadow plants. The understorey is almost covered with leaves and was abandoned by the insect, the traces of which remain on the plants in stems of *Veronica urticifolia* and *Hieracium prenanthoides* - H.P. *Corylus avellana* - (as *Typhlocyba*): 3 ♂ ♂ 2 ♀ ♀ dry.

Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Alnus incana* (near the stone grinder) - (as *Typhlocyba*): 1 ♂ not prepared - There are several plants of *Corylus* in this area.

Typhl. 275 - PIEDMONT - Turin - (Valentino Park) - 28-X-58 - H.P. *Corylus avellana* - (as *Typhlocyba*): presence of ♂ ♂ ♀ ♀ : 2 ♂ ♂ dry (1 ♂ to Linnavuori, September 1961).

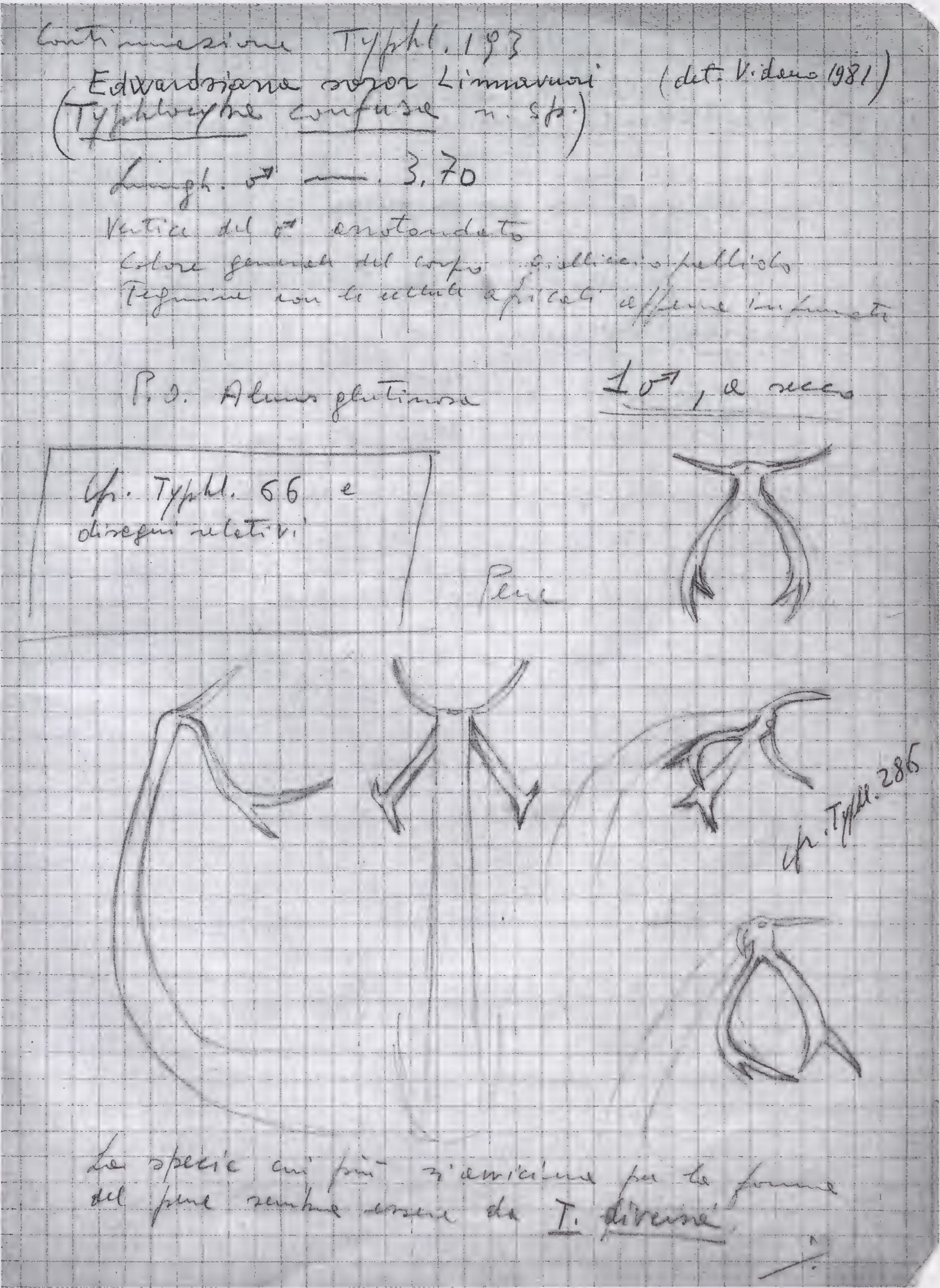


Fig. 13 - A notebook page with the sketches of the genitalia of Edwardsiana soror Linnavuori

- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - (as *Typhlocyba*) - H.P. *Alnus viridis*: 1♂ (from *Corylus*) not prepared - Chevrère (AO) - m 1,120 - (Locality between Ruinaux and Fénille) - H.P. *Corylus avellana*: 3♂♂ 2♀♀ not prepared.
- Typhl. 290 - PIEDMONT - Cortemilia (Alba) (CN) - 2-X-59 - H.P. *Corylus avellana* - (as *Typhlocyba*): ♂♂ ♀♀ not prepared.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - (Hamlet Raimondi; Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana*: 5♂♂ 6♀♀ dry - (In some ♂♂ the small spines of the aedeagus are almost obliterated).
- Typhl. 449 - CAMPANIA - Surroundings of Avellino - 8-10-62 - (Leg. dr Viggiani) - H.P. *Corylus avellana*: 3♂♂.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Corylus avellana*: 2♂♂ 1♀ dry (1♂ parasitized by a dryinid).
- Typhl. 633 - PIEDMONT - Gattinara (VC) - Baraggia - 17-IX-81 - H.P. *Alnus glutinosa*: 1♂ dry.
- Typhl. 675 - PIEDMONT - Turin - (Valentino Park) - 17-V-84 - H.P. *Corylus avellana* (depigmented leaves with juveniles of typhlocybines) - emergence: 1♂.
- Typhl. 676 - PIEDMONT - Turin - (Valentino Park) - 24-V-84 - H.P. *Corylus avellana*, depigmented leaves, with juveniles of typhlocybines - emergences: 31-V: 1♂ - 2-VI: 1♀ - H.P. *Corylus maxima* (red leaves) - Depigmented leaves, with juveniles of typhlocybines - emergences: 31-V: 1♂ - 4-VI: 1♂.
- Typhl. 677 bis - PIEDMONT - Stupinigi (TO) - 3-VI-84 - H.P. *Corylus avellana*, depigmented leaves with juveniles of typhlocybines - rearings Demichelis - emergences: 5-VI-84: 2♂♂ - 8-VI-84: 1♂ - not prepared.
- Typhl. 678 - PIEDMONT - Predosa (AL) - 10-VI-84 - H.P. *Corylus avellana*: emergences, 18-VI-84: 1♂ + 2 ? ♀♀.
- Typhl. 682 - PIEDMONT - Vistrorio (TO) - m 500 - 17-VI-84 - H.P. *Corylus avellana* - rearings Demichelis (emergences: 25-28 June 1984): 3♂♂ not prepared.
- Typhl. 714 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Corylus avellana*: 1♂ dry, 3♀♀ not prepared.
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana* - abundant on the borders of the plots, meadows, mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 4♂♂ dry (2♂♂ dryinidized).
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - m 1,000 - (Slope of Garessio) - 27-IX-84 - H.P. *Corylus avellana* (near chestnuts, beeches, willows, *Acer*) upstream: 1♂ 2♀♀ not prepared.
- Typhl. 740 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 900 - H.P. *Corylus avellana* (wild): 1♂ 3♀♀ not prepared.
- Typhl. 740 bis - PIEDMONT - S. Michele Mondovì (CN) - m 600 - 27-IX-84 - H.P. *Corylus avellana* (cultivated): 4♂♂ 5♀♀ not prepared.

EDWARDSIANA stehliki Lauterer, 1958

- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* (topped plants on the right and hedge on the left of the road leading to the pheasant's reserve) - (Cfr. Typhl. 208, 210, 259, and 426 bis) - (as *Typhlocyba solitaria* n.sp.) - It is systematically close to *T. avellanae*: 1 ♂ dry, length mm 3.85 - Basic colour very light yellow. Tegmina almost transparent with the clavus yellowish and the apical cells slightly infumate. Styli like in other species of this group. Aedeagus compresses laterally with only two anterior branches apically and two teeth directed upwards. Close to the apex the aedeagus is compressed dorso-ventrally. **Drawings.**
- Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch, Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba abnormis*): 1 ♂ dry, length mm 3.8 - (Cfr. Typhl. 201, 193, 472) - Yellowish white colour, apical cells of the tegmina fairly infumate. It must be placed in a separate group, near *T. douglasi* - (Cfr. Typhl. 259) - Probably dryinidized - 3 **Drawings.**
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Acer platanoides* (young wild plants) - (as *Typhlocyba solitaria*): 1 ♂ dry - (Cfr. Typhl. 196, 208, 259, 426 bis) - (Note the curving of the axis of the aedeagus and the absence of teeth directed upwards. One anterior branch is bifid). **Drawings.**
- Typhl. 259 - PIEDMONT - Nizza Monferrato (AT) - (road to Alessandria, 2-3 Km from the town) - 31-VII-58 - H.P. *Cornus sanguinea* (very depigmented leaves) - (as *Typhlocyba abnormis*): 1 ♂ dry - (Cfr. Typhl. 208) - Probably dryinidized - 8 ♀ ♀ not prepared.
- Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI) - (Gullies, near Ponti) - 20-IX-62 - H.P. *Castanea sativa* (bushes of the plant base): 1 ♂ dry. **Drawing.**

Box 27

GENUS *EUPTERYCYBA* Dlabola, 1958*EUPTERYCYBA jucunda* (Herrich-Schäffer, 1837)

- Typhl. 122 - PIEDMONT - Turin - (Botanical gardens) - 4-VII-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ dry (phot. 4,112).
- Typhl. 143 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's alder grove) - 18-VII-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ dry.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 23 adults of which (the abdominal end of a ♂ has disappeared) !!! 2 ♂ ♂ in alcohol, 21 ♀ ♀ (7 dry, 7 in alcohol, 7 in a plastic tube) - phot. 6,317: ♀ ; 6,317 bis: wings - (To Servadei: 5 ♀ ♀ , April 1971).
- Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ not prepared.
- Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Alnus glutinosa*: 2 ♀ ♀ .

- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Alnus glutinosa*: 3 ♀ ♀ .
- Typhl. 615 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 9-VIII-81 - storm! - H.P. *Alnus glutinosa*: 1 ♀ phot. (...) Wild, 16x, length mm 4.30.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* (stream bed where *Salix* and *Populus* thrive, but *Quercus* is missing): 1 ♀ dry.
- Typhl. 731 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age near the greenhouses): 5 exuviae of nymphs dry - (remarkably depigmented leaves): 3 ♀ ♀ collected by my pupil Demichelis on 2-VIII-84.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 1 ♂ dry (phot.).
- Typhl. 883 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - (Leg. Demichelis) - 25-X-86 - H.P. *Alnus cordata*: exuviae and 5th instar nymphs not prepared.

Box 28

GENUS LINNAVUORIANA Dlabola, 1958

LINNAVUORIANA decempunctata (Fallén, 1806)

- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*): !!! 5 ♂ ♂ (3 dry, 2 in alcohol), 13 ♀ ♀ (7 dry, 6 in alcohol) - N.B.: this species develops certainly on the mentioned plant. I reared some adults from as many nymphs. There are some birches in this area. Phot. ♀ .
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Alnus viridis* - (as *Typhlocyba*): 1 ♂ 4 ♀ ♀ dry.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavaranche) - 12-IX-59 - m 1,541 - H.P. *Alnus viridis* - (as *Typhlocyba*): 2 ♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 624 - PIEDMONT - Orco Valley (TO) - m 1,550 - 23-VIII-81 - H.P. *Alnus viridis* - (Present from the base of the dam of lake Serrù, m 2,275, down to the lake of Ceresole Reale m 1,600) - Day with a strong wind - Made many surveys at different heights but unsuccessful. Also the trials near the lake were unfruitful, where the wind is usually weaker - H.P. *Alnus incana* - Present from the beginning of Ceresole Reale (m 1,600) down to Pont Canavese (and maybe Cuorgnè), always along the stream Orco. At Locana (m 618), in small meadows, also *Alnus glutinosa* starts to appear - Ceresole Reale and Prese - I collected on *A. incana* - 3 5th instar nymphs: phot. (...) Wild, 1 nymph mm 2.7, 20x. Reared with 2 other nymphs - 25-VIII: 2 ♂ ♂ emerged (dry); 28-VIII-81 phot. (...) Wild: 1 ♂, length mm 3.5, 20x - The third nymph died.
- Typhl. 628 - PIEDMONT - Groscavallo (TO) - m 1,100 - (The townhall is in the hamlet Pialpetta, m 1,069) - 30-VIII-81 - H.P. *Betula verrucosa* (present on the bed of the

river Stura up to the top of the mountains of the left orographic slope): presence of adults and nymphs - 3♂♂ 3♀♀ dry - phot. (...): ♂♀, 20x; (...): exuvia, 20x - H.P. *Alnus incana* (present starting from Forno Alpi Graie along the river down to beneath Lanzo. At Groscavallo along the river bed it grows together with *A. viridis* and *B. verrucosa*. At Pessinetto, m 590, there is already also *A. glutinosa*, but not along the river): presence of adults and nymphs - 2♂♂ 1♀ dry - H.P. *Alnus viridis* (present only in the river bed, from Groscavallo up towards Forno Alpi Graie): 1♂ dry.

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Sorbus aucuparia*: 1♀ dry (whitish, rich of brochosomes, from *Betula* for the wind!) - H.P. *Betula*: 4♂♂ 4♀♀ dry - Phot. (...): 2♂♂ dark: mm 3.2 and mm 3.7 - H.P. *Juniperus*: 1♂ 1♀ dry - H.P. *Pinus sylvestris*: 1♂ 2♀♀. Phot. (...): 1♀ mm 3.6.

Typhl. 719 - GERMANY - Hamburg (W Germany) - Park "Planten un Blomen" - 24-VI-II-84 - (XII International Congress Entomology) - Leg. Vidano & Arzone - H.P. *Betula ermanii* Cham.: Asia and Japan (data on the label) - Isolated plant in a lawn: 1♀ dry, 2 nymphs reared: 1♂ 1♀ emerged dry.

LINNAVUORIANA sexmaculata (Hardy, 1850)

Typhl. 2 - PIEDMONT - Susa (TO) - (road to Cesana) - 13-X-55 - H.P. *Populus alba* - (as *Typhlocyba sexpunctata*): ♂♀ in copula and 1♀ parasitized, but still active, from a mature larva of Dryinidae, on the lower leaf page of *P. alba*. The 3 individuals are prepared dry - adults and 5th instar nymphs *Erythroneura tithide* (see Typhl. 1) were abundant on the leaves of the same *P. alba* - Ribaut mentions this species in France and Europe on willows (since July) without being common anywhere.

Typhl. 19 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Salix caprea* - along a ditch with water - *Typhlocyba* of the *decempunctata* group: *L. sexmaculata* only 1♂ dry.

Typhl. 24 - (See also Typhl. 2) - PIEDMONT - Susa (TO) - (road to Cesana) - 17-X-55 - H.P. *Populus alba* - (as *Typhlocyba sexpunctata*): 1♂ 3♀♀ (2♀♀ dry, 1♂♀ in alcohol) - This species is scarce, while *Erythroneura tithide* is abundant on the same host (Cfr. Typhl. 1 and 21).

Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Salix caprea* (near Gramineae) - (as *Typhlocyba sexpunctata*): 1♂ (parasitized by a dryinid) in alcohol - 4♀♀ (2 in alcohol, 2 dry).

Typhl. 72 - PIEDMONT - Caluso (TO) - (Monti Barbisin's apple grove) - 18-XI-56 - H.P. *Malus communis* - (as *Typhlocyba sexpunctata*): 1♀ dry.

Typhl. 95 - PIEDMONT - Bruino (TO) - (road of Giaveno) - 21-V-57 - H.P. *Salix caprea* - (as *Typhlocyba sexpunctata*): 1♀ dry.

Typhl. 104 - PIEDMONT - Susa (TO) - (road of Cesana) - 31-V-57 - H.P. *Populus tremula* - (as *Typhlocyba sexpunctata*): 1♀ dry.

Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. *Populus alba* - (as *Typhlocyba sexpunctata*): 1♀ dry.

- Typhl. 159 - PIEDMONT - Exilles-Salabertano (TO) - (Gravere) - 6-VIII-57 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): 1 ♀ dry.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): 9 ♂ ♂ (3 dry, 6 in alcohol), 17 ♀ ♀ (8 dry, 9 in alcohol), 5 nymphs in alcohol !!!var *manca nova*: 2 ♀ ♀ dry - Scutellum without the two black spots.
- Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): 9 ♀ ♀ var *manca* (3 ♀ ♀ dry) - 6 ♂ ♂ forma typica (3 ♂ ♂ dry).
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Populus alba* (young plants only with the apical canopy, 4-5 m tall, among a mixed coppice) - (as *Typhlocyba sexpunctata*): 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - (as *Typhlocyba sexpunctata*) - H.P. *Salix alba* (big topped trees): 3 ♂ ♂ 3 ♀ ♀ not prepared - H.P. *Populus alba* (big topped trees in rows): var *manca*: 1 ♂ 1 ♀ dry - Forma typica: 3 ♂ ♂ 3 ♀ ♀.
- Typhl. 197 - (Cfr. Typhl. 270) - PIEDMONT - Stupinigi (TO) - (Stream Sangone) - 24-IX-57 - H.P. *Salix alba*, *S. purpurea* - (as *Typhlocyba sexpunctata*): 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Salix purpurea* - (as *Typhlocyba sexpunctata*): 1 ♂ 2 ♀ ♀ not prepared - (no *T. decempunctata* present instead on the nearby *Alnus incana*).
- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Salix caprea* - (as *Typhlocyba sexpunctata*): 3 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 214 - PIEDMONT - Ulzio (TO) - (Dora Riparia Valley) - (Downstream, 1 Km outside the town, along the stream and the national route) - 8-X-57 - H.P. *Salix purpurea* - (as *Typhlocyba sexpunctata*): 1 ♂ 3 ♀ ♀ not prepared.
- Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Salix caprea* - (as *Typhlocyba sexpunctata*): some ♂ ♂ ♀ ♀ adults, 1 ♂ dry.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Populus alba* - (as *Typhlocyba sexpunctata*): 1 ♂ 1 ♀ not prepared.
- Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - m 1,000 - (Dora Riparia Valley) - 22-X-58 - H.P. *Salix alba* - (as *Typhlocyba sexpunctata*): 1 ♂ 1 ♀ not prepared.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - 12-IX-59 - m 1,120 - (Locality between Ruinaux and Fénille) - H.P. *Salix caprea* - (as *Typhlocyba sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 326 - SARDINIA - S. Gregorio (CA) - road to Muravera (private holding, villa

- with park and vegetable garden) - 12-VIII-61 - H.P. *Salix cinerea*! - (as *sexpunctata*): 1♂ 7♀ ♀ dry.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Salix alba* - (as *sexpunctata*): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park - Valle di Piantonetto (TO) - m 1,450 - (Cableway station and Don Salvetti's apiary) - 27-IX-61 - H.P. *Salix caprea* - (as *sexpunctata*): 2♂ ♂ dry (with a very simple aedeagus).
- Typhl. 347 - PIEDMONT - Locana (TO) - m 613 - Orco Valley - 27-IX-61 - H.P. !*Salix incana* - (as *sexpunctata*): 2♂ ♂ 4♀ ♀ not prepared.
- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. !*Salix aurita* - (as *sexpunctata*): 2♂ ♂ 6♀ ♀ not prepared - (4 specimens parasitized by *Aphelopus*).
- Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the Timavo - (Bridge of the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Salix alba* - (as *sexpunctata*): 2♂ ♂ 6♀ ♀ not prepared.
- Typhl. 377 - SARDINIA - Iglesias (CI) - 19-X-61 - (Halfway between Iglesias and Domusnovas) - H.P. *Salix triandra*! - (as *sexpunctata*): 3♂ ♂ 2♀ ♀ dry.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Salix caprea* - (as *sexpunctata*): 1♀ dry.
- Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena - bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Salix caprea* - (as *sexpunctata*): 2♂ ♂ 4♀ ♀ + juveniles not prepared.
- Typhl. 410 - SARDINIA - Arzachena (OT) - (Costa Smeralda near Porto Cervo, Porto Apulia, in the locality Lisciavacca) - 15-VIII-62 - H.P. *Salix caprea* - var *pedicillata* (det. Ariello by comparison!) - (as *sexpunctata*): 2♂ ♂ 4♀ ♀ dry.
- Typhl. 424 - LIGURIA - Giogo di Toirano (SV) - m 800 ~ - 16-IX-62 - H.P. *Salix caprea* - (as *sexpunctata*): ♂ ♂ ♀ ♀ + juveniles not prepared.
- Typhl. 441 - SARDINIA - Campu Omu (CA) - (On the right of the road Cagliari-Muravera, near the crossroad to Burcei) - Fluminimaggiore - m 5 - (In the stream bed) - 7-X-62 - H.P. *Salix cinerea* - (as *sexpunctata*): ! 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 468 - FRANCE - Urgosse (Gers) - 30-VIII-63 - (Domaine Garvage, Colavino Lorenzo) - H.P. *Salix viminalis* (near pond and vineyard), *S. gr. caprea* (near pond and houses), *S. alba* (near wood), grapevine (near *S. viminalis*) - (as *sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - (as *sexpunctata*) - H.P. *Salix alba*: ♂ ♂ ♀ ♀ not prepared - H.P. *S. caprea*: 1♀ dry.
- Typhl. 527 - JUGOSLAVIJA - Obravac (on the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Salix alba* (River Cetina) - (as *sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 529 - JUGOSLAVIJA - (Montenegro - Danilovgrad, Titograd) - 7-IX-64 - (Near the river Zeta) - H.P. *Salix alba* - (as *sexpunctata*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 530 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Airfield) - 8-IX-64 - H.P. *Salix alba* - (as *sexpunctata*): ♂ ♂ ♀ ♀ not prepared (arid promontory near Virpazar).

- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - Finland (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Salix caprea*: 2♂♂ (1 phot. mm 4.0), 4♀♀ dry.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Salix caprea*: 1♂3♀♀ dry.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Salix alba* and *Salix* spp. (along the Tanaro): 2♂♂1♀ not prepared (1♂♀ dryinidized).
- Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~, along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 2♀♀ dry.
- Typhl. 885 - PIEDMONT - Bardonecchia (TO) - Rochemolles - 31-X-86 - m 2,100 (dam) - Sunny day without wind - H.P. *Salix* sp.: 4♀♀ dry.

Box 29

GENUS *FICOCYBA* Vidano, 1960*FICOCYBA ficaria* (Horváth, 1897)

- Typhl. 03 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 10-X-55 - H.P. *Prunus domestica* - (as *Typhlocyba*): 2♂♂ not prepared.
- Typhl. 29 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 20-XI-55 - H.P. *Prunus domestica* (leaves of root suckers) - (as *Typhlocyba*): ? 3 individuals (1♂2♀♀) - the ♂ has the two characteristic black spots (in alcohol).
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's property) - 14-X-56 - H.P. *Quercus* sp. - (as *Typhlocyba*): 1♂ dry.
- Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Prunus avium* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 103 - PIEDMONT - Bussoleno-S. Giorio (TO) - 31-V-57 - H.P. fig tree - (as *Typhlocyba*): 3♀♀ dry (tegmina slightly yellowish, poorly infumate at the end; apex of the terebra brown).
- Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - (Near the convent) - 5-VI-57 - m 600 - H.P. fig tree - (as *Typhlocyba*): 14 individuals of which: 3♂♂ (1 dry, 2 in alcohol), 11♀♀ (2 dry, 9 in alcohol) - There are not yet any juvenile stages - Length of ♂♂: mm 2.95-3.10 - length of ♀♀: mm 3.0-3.25.
- Typhl. 110 - PIEDMONT - Caluso (TO) - (Salveti's house) - 8-VI-57 - H.P. fig tree - (as *Typhlocyba*): presence of the first adults.
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Salveti's house) - (Cfr. Typhl. 92 and 98) - 16-VI-57 - H.P. fig tree - (as *Typhlocyba*): first ♂♂♀♀ adults.
- Typhl. 119 - PIEDMONT - San Giorio-Bussoleno (TO) - 18 and 25-VI-57 - H.P. fig tree - (as *Typhlocyba*): 3♀♀ not prepared (dr Sampò).
- Typhl. 145 - APULIA - Gargano - Foggia - (Crossroad Monte S. Angelo-Umbra Forest) - m 600 - 22-VII-57 - H.P. *Ficus carica* (not edible) - (as *Typhlocyba*): 15♂♂ (3

dry, 12 in alcohol), 8 ♀ ♀ (2 dry, 6 in alcohol), 1 5th instar nymph in alcohol - 2♂♂ 2♀♀ to Dlabola.

Typhl. 157 - PIEDMONT - S. Giorio-Bussoleno (TO) - (Susa Valley) - 6-VIII-57 - H.P. fig tree - (as *Typhlocyba*): presence of many adults (♀♀ 60%) and juveniles of all instars - All of the 2nd generation (on the fig). Phot. 4,268: ♂ dorsal; 4,269: ♂ ventral (dry); 4,270: last instar nymph; 4,271: tegmen and wing of a ♂.

Typhl. 174 - CAMPANIA - Pagani (SA) - (Near Nocera) - 2-IX-57 - (Falcone Tobia's orchard, via Romana 7) - H.P. fig tree - (as *Typhlocyba*): ♂♂ ♀♀ adults not prepared.

Typhl. 241 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field, along the Canal) - 25-V-58 - H.P. !!*Lonicera* sp. - (as *Typhlocyba*): 2♂♂ 7♀♀ dry. The ♂♂ have the elytra slightly coloured with a very pale yellow, while the ♀♀ are completely white - Presence of many 4th and 5th instar nymphs, mostly 1 per depigmented leaf. This species overwinters in the egg stage above all in the main veins (1-2 eggs per leaf); there are few oviposition traces in leaf stalks, while there are none in the secondary veins, that are very small. Phot. 4,768-4,769: depigmented leaves - During a survey of 10-V-58 I saw the first depigmented leaves and the presence of neanids and nymphs (mostly 3rd and 4th instars). On 28-V-58 there are still some nymphs, many 5th instars and some 4th instars. Many adults have already abandoned *Lonicera*. It is not impossible that some are already on fig.

Typhl. 242 - PIEDMONT - Turin - (Valentino Park) - (Medieval castle) - 30-V-58 - H.P. *Lonicera* sp. - (as *Typhlocyba*): 1♂ 3♀♀ dry - Presence of several depigmented leaves. There are no more nymphs, but only some adults.

Typhl. 242 bis - PIEDMONT - Asti - (Hedge-erosion furrow, beyond the stream Bormida) - 31-V-58 - H.P. *Lonicera* sp. - (as *Typhlocyba*): presence of some adults - There are no more nymphs - Many leaves are depigmented - Pino Torinese (TO) - 31-V-58 - H.P. *Lonicera* sp. - (as *Typhlocyba*): some adults - no nymphs - depigmented leaves.

Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - 22-X-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ dry.

Typhl. 276 - PIEDMONT - Caluso (TO) - (Vidano's home and along the Canal) - 1-XI-58 - (as *Typhlocyba*) - H.P. fig tree - presence of adults (not many anymore and mostly ♀♀ : ratio between ♂♂ ♀♀ = 1:4) and of nymphs (almost exclusively 5th instars). 12 adults of which 3♂♂ and 9♀♀ - 10 nymphs (7 5th instar, 2 4th instar, 1 2nd instar) reared on *Lonicera* - H.P. *Lonicera caprifolium*, *L. japonica*: presence of many adults (mostly ♀♀) - 2♂♂ 8♀♀ (reared on *Lonicera*) - 4-XI: I got egg-layings in leaf veins of *Lonicera* - phot. 6,735-6,736.

Typhl. 309 - LOMBARDY - Goito (MN) - (road to Peschiera) - 8-VI-61 - H.P. *Lonicera caprifolium* (very depigmented leaves): 1♂ 2♀♀ not prepared.

Typhl. 318 - SICILY - Mascalucia (CT) - (road to Etna) - 10-VII-61 - H.P. *Ficus carica*: 2♂♂ 4♀♀ dry.

Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Ficus carica*: ♂♂ ♀♀ and juveniles not prepared.

Typhl. 327 - SARDINIA - S. Gregorio (CA) - 12-VIII-61 - (Stream with little water along

- the road to Muravera) - H.P. *Ficus carica*: ♂♂ ♀♀ not prepared - H.P. *Lonicera* sp. (with big leaves) - Depigmented leaves (presence of some ♀♀ of *T. ficaria*! but the plant is climbing really on the above mentioned fig).
- Typhl. 339 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 25-VI-II-61 - H.P. *Ficus carica*: 9♂♂ 32♀♀ dry.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa*: 1♂ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with bushes of various broadleaves, 6-7 m high, in continuation with the heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata*: 1♂ dry - H.P. *Ficus carica*: 7♂♂ 9♀♀ not prepared.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Ficus carica*: ♂♂ ♀♀ not prepared.
- Typhl. 377 - SARDINIA - Cagliari - Iglesias (CI) - 19-X-61 - (Halfway between Iglesias and Domusnovas) - H.P. *Ficus carica*: 4♂♂ 10♀♀ not prepared.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi), near Oliena (NU) - 11-VIII-62 - (I collected at the heights of m 1,000-1,100) - Oliena (NU) - H.P. *Ficus carica*: 3♂♂ 6♀♀ + juveniles not prepared.
- Typhl. 407 - SARDINIA - S. Teresa di Gallura (OT) - 13-VIII-62 - H.P. *Ficus carica*: ♂♂ ♀♀ and juveniles not prepared.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Ficus carica*: ♂♂ ♀♀.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Ficus carica*: ♂♂ ♀♀ and juveniles not prepared (near *Lonicera* sp. with very depigmented leaves!!! The leafhopper is not present now on the same *Lonicera*, that evidently hosted the spring generation of this insect).
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punte delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Ficus carica*: ♂♂ ♀♀ + juveniles not prepared - H.P. *Lonicera implexa* (very depigmented leaves, but no leafhopper. They are obviously depigmentations caused by the spring generation of *Ficocyba ficaria*).
- Typhl. 441 - SARDINIA - Campu Omu - (On the right of the road Cagliari-Muravera, near the crossroad to Burcei) - Fluminimaggiore (CI) - m 5 - 7-X-62 - (In the stream bed) - H.P. *Ficus carica*: ♂♂ ♀♀ + juveniles not prepared.
- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. fig tree - (as *Edwardsiana*): 10♂♂ 10♀♀ dry - 10♀♀ to Papevic - "The only species found on fig".
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja - (Slope of Otišić) m 500 - 3-IX-64 - H.P. *Ficus carica*: ♂♂ ♀♀ and juveniles not prepared.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined

by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 29-VIII-77: 1 ♀ - 18-VII-77: 1 ♂ - 11-VII-77: 1 ♂ - 4-VII-77: 1 ♀ - 27-VI-77: 1 ♂ - 20-VI-77: 1 ♂ - 13-VI-77: 1 ♀ - 6-VI-77: 1 ♂ 1 ♀ .

Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - H.P. *Lonicera* sp. (in the maquis, under *Pinus pinea*): exuviae and depigmented leaves - H.P. *Ficus carica*: adults and juveniles not prepared - H.P. *Lonicera* sp. (in the maquis under *Pinus pinea*): exuviae and depigmented leaves.

Typhl. 844 bis - CAMPANIA - Portici-Torre del Greco (NA) - 12-IV-86 - H.P. *Lonicera* sp.: ♂ ♂ ♀ ♀ (first ones) + juveniles.

Typhl. 846 bis - SARDINIA - Solanas (CA) - 30-IV-86 - Along the seaside - H.P. *Ficus carica*: 2 ♂ ♂ 1 ♀ dry.

Typhl. 886 - PIEDMONT - Predosa (AL) - 1-XI-86 - H.P. *Ficus carica* (strong suckers with still green leaves): 3 ♂ ♂ 9 ♀ ♀ + 4th and 5th instar nymphs reared - 13-XI-86 altogether 4 ♂ ♂ 5 ♀ ♀ emerged not prepared.

Typhl. 907 bis - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. *Ficus*: ♂ ♂ ♀ ♀ parasitized by *Anagrus atomus*.

Typhl. 921 - PIEDMONT - Carema (TO) - 30-VI-88 - H.P. fig tree - Mosaic - photographed.

Box 30

GENUS *LINDBERGINA* Dlabola, 1958

LINDBERGINA aurovittata (Douglas, 1875)

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Typhlocyba pandellei*) - var *spoliata*: 1 ♂ dry.

Typhl. 180 - CAMPANIA - S. Agata sui due Golfi-Punta S. Angelo (NA) - 8-IX-57 - H.P. *Quercus cerris* (basal foliage of big trees) - (as *Typhlocyba pandellei*): 2 ♂ ♂ (1 ruined dry, 1 in alcohol), 5 ♀ ♀ (3 dry, 2 in alcohol) - (Cfr. Typhl. 184).

Typhl. 184 - LATIUM - Montalto di Castro (VT) - 9-IX-57 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Typhlocyba ?pandellei*): 1 ♂ dry - (Cfr. Typhl. 180).

Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - (as *Typhlocyba pandellei*) - H.P. *Quercus sessiliflora* (left orographic slope): 2 ♂ ♂ dry (to Servadei, April 1971) - H.P. *Quercus ilex*: 1 ♂ dry.

Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Quercus pubescens* - (as *Lindbergina pandellei*): ! 1 ♀ dry (parasitized by *Aphelopus*).

Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri, near the pass, but not in the valley) - 14-VIII-61 - H.P. *Quercus ilex* and *Rubus fruticosus* - (as *Lindbergina pandellei*): 1 ♂ dry.

Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Acer monspessulanum* - (as *Lindbergina aurovittata*): 1 ♂ dry.

Typhl. 354 - FRIULI- VENEZIA GIULIA - Trieste - Basovizza-Gropada (karstic zone) - 1-X-61 - H.P. *Quercus pubescens* - (as *Lindbergina pandellei*) - var *spoliata*: 3 ♂ ♂ 2 ♀ ♀ dry.

- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Quercus pubescens* - (as *Lindbergina !pandellei*): 1 ♀ dry.
- Typhl. 397 - LIGURIA - Diano Marina-Capo Cervo (IM) - 12-V-62 - H.P. *Myrtus communis* - (as *Lindbergina pandellei*): 3 4th and 5th instar nymphs from which I reared the adults: on 20-V-62 - 3 ♂ ♂ dry prepared on 30-V-62 (collected by dr Sampò).
- Typhl. 408 bis - SARDINIA - Mount Limbara - Above Tempio Pausania (OT) - 14-VIII-62 - H.P. *Castanea sativa* (m 900) - (Relatively small, bushy plants in a reforestation among *Erica scoparia*, small holm oaks, *Arbutus unedo*, *Rubus fruticosus*, etc.) - Windy day - (as *Lindbergina pandellei*): 4 ♀ ♀ dry.
- Typhl. 428 - TUSCANY - Elba Island (LI) - Marciana - (Locality exposed northwards, cool, at a height of m 400 approx., 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Castanea sativa* - (very low bushes) - (as *Lindbergina pandellei* forma typica): 4 ♂ ♂ 1 ♀ dry - phot. 10.358: ♂ (phot. Wild colour and black and white), 7-VIII-81 (in toto and aedeagus) - (as *Lindbergina pandellei* var *spoliata*): 3 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris* - (as *Lindbergina pandellei*): 1 ♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Quercus sessiliflora* (mixed with *Q. ilex*) - (as *Lindbergina pandellei*): 1 ♂ dry.
- Typhl. 844 bis - CAMPANIA - Portici-Torre del Greco (NA) - 12-IV-86 - H.P. *Quercus ilex* - (as *pandellei*): eggs plus juveniles; I reared an adult (1 ♂). To Bosco for parasites.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - (as *Lindbergina pandellei*) - H.P. *Vitis vinifera* (Paolino's vineyard): 1 ♀ (coming from *Quercus cerris* or *Q. pubescens*) - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1 ♂ 3 ♀ ♀ dry.
- Typhl. 890 - PIEDMONT - Colle della Maddalena (TO) - 15-II-87 - H.P. *Quercus ilex* (big trees): ?eggs.
- Typhl. 891 - PIEDMONT - Pino Torinese (TO) - 15-II-87 - H.P. *Quercus ilex*: ?eggs.
- Typhl. 892 - PIEDMONT - Superga (TO) - 15-II-87 - (Beginning of the panoramic road to Pino Torinese) - H.P. *Quercus ilex*: ?eggs.
- Typhl. 893 - PIEDMONT - Turin - (Botanical gardens) - 27-II-87 - H.P. *Quercus suber*: ?eggs on leaves.
- Typhl. 894 - PIEDMONT - Pino Torinese (TO) - 15-III-87 - (Halfway of the panoramic road to Superga) - H.P. *Quercus ilex* (3 plants): eggs.
- Typhl. 895 - PIEDMONT - Roccagrimalda (AL) - 22-III-87 - H.P. *Quercus ilex* (9 + 1 plants) - (as *Lindbergina ?pandellei*): eggs.

LINDBERGINA spoliata (Horváth, 1907)

- Typhl. 273 - LIGURIA - Sanremo (IM) - Locality Brezza (hills on the East of Sanremo) - 18-X-58 - H.P. *Vitis vinifera* - (as *Typhlocyba aurovittata*): 1 ♀ dry.
- Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Acer monspessulanum* - (as *aurovittata*): 1 ♂ 1 ♀ dry - phot. 9,166: ♂ length mm 3.25; ♀ length mm 3.4 - phot. Wild: 7-VIII-82: ♂ + genitalia colour and black/white.

- Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the Timavo (TS) - (Bridge of the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Salix alba* - (as *aurovittata*): 1 ♂ 3 ♀ ♀ dry. (To Servadei: 1 ♂ 3 ♀ ♀, April 1971).
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Salvia officinalis* (endemism) - (as *aurovittata*): 1 ♀ dry.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Gabrovizza (TS) - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Rhus cotinus* (far from the cave, in karstic areas) - (as *aurovittata*): 1 ♂ dry.
- Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Quercus ilex* - (as *aurovittata*) - (Last instar nymphs and newly emerged adults): 3 ♂ ♂ 2 ♀ ♀.
- Typhl. 392 - SICILY - Palermo - (Piana degli Albanesi) - 17-IV-62 - H.P. *Quercus ilex* - (as *aurovittata*): 2 ♂ ♂ 3 ♀ ♀ + nymphs not preserved.
- Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - H.P. *Quercus ilex* - (as *aurovittata*): 1 ♀ dry.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Alnus glutinosa* - (as *aurovittata*): ! 1 ♂ 1 ♀ not prepared.
- Typhl. 451 - FRANCE - Agde (Herauld) - (Thicket along the seaside) - 5-V-63 - H.P. *Quercus ilex* - (as *aurovittata*): 3 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 453 - FRANCE - Frontignan (Herauld) - (Broadleaf thicket) - 5-V-63 - H.P. !!*Quercus coccifera* - (as *aurovittata*): 3 ♂ ♂ 3 ♀ ♀ dry (1 ♂ 1 ♀ reared from nymphs).
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pubescens* and *Q. ilex* (bushes) (wind!) - (as *aurovittata*): 1 ♂ dry.
- Typhl. 489 - SARDINIA - Mount Corrasi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Quercus ilex* (m 1,250) - (as *aurovittata*): 1 ♂ 1 ♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Quercus pubescens*, *Q. aegylops* - (as ?*aurovittata*): 1 ♀ dry.
- Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - (as *Yungiada aurovittata*) - H.P. *Myrtus communis*: 1 ♂ 3 ♀ ♀ dry (likely from *Quercus*) - H.P. *Quercus pubescens*: (1 ♂ reared from a nymph; 1 ♀, length mm 2.6) - phot. (...): ♂ length mm 2.8, negative 21x; (...): 1 ♂ 4 ♀ ♀, negative 20x.
- Typhl. 754 - PIEDMONT - Chianocco (TO) - 22-V-85 - H.P. *Quercus ilex* (old depigmented leaves, unharmed spring leaves) - (as *aurovittata*) - (Cfr. Typhl. 760) - phot. 20 juveniles: 1 of 1st instar, 8 of 2nd, 11 of 3rd in rearing: glass tubes in a plastic bag - (parasitized eggs upper page mm 0.7-0.8 ?*Epoligosita vera* Viggiani) - Emergences (rearing Q78: Bosco D.) 6 ♂ ♂ 11 ♀ ♀: 4-VI-85, 2 ♂ ♂ 1 ♀ - 6-VI-85, 2 ♂ ♂ - 8-VI-85, 2 ♀ ♀ - 10-VI-85, 1 ♂ - 11-VI-85, 1 ♀ - 12-VI-85, 3 ♀ ♀ - 13-VI-85, 1 ♀ - 14-VI-85, 3 ♀ ♀ - 17-VI-85, 1 ♂.
- Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - (as *aurovittata*) - H.P. *Quercus ilex* - (Cfr. Typhl. 754): 4 ♂ ♂ 2 ♀ ♀ dry. Phot. ♂ (mm 3.0), ♀ (mm 3.45) - Grey abdomen: not yet mature. 5th instar nymphs in rearing - H.P. *Q. pubescens* (near *Q. ilex*): 1 ♂ dry (black abdomen, length mm 3.0).
- Typhl. 836 - TUSCANY - Elba Island - Marciana (LI) - m 400 - 27-IX-85 - H.P. *Quer-*

cus ilex - (as *aurovittata*): 1 ♀.

Typhl. 890 - PIEDMONT - Colle della Maddalena (TO) - 15-II-87 - H.P. *Quercus ilex* (2 big trees) - (as *?aurovittata*): eggs.

Typhl. 891 - PIEDMONT - Pino Torinese (TO) - (Beginning of the panoramic road to Superga) - 15-II-87 - H.P. *Quercus ilex* - (as *?aurovittata*): eggs.

Typhl. 892 - PIEDMONT - Superga (TO) - 15-II-87 - (Beginning of the panoramic road to Pino Torinese) - H.P. *Quercus ilex* - (as *?aurovittata*): eggs.

Typhl. 897 - PIEDMONT - Biella - (Chiavazza) - (Leg. Alma, Bosco) - 26-V-87 - H.P. *Quercus suber*: 32♂♂ 31♀♀ (leaves with eggs parasitized by *Epoligosita vera*) - 51 5th instar nymphs reared.

Box 31

GENUS *RIBAUTIANA* Zachvatkin, 1947

RIBAUTIANA alces (Ribaut, 1931)

Typhl. 180 - CAMPANIA - S. Agata sui due Golfi-Punta S. Angelo (NA) - 8-IX-57 - H.P. *Quercus cerris* (basal foliage of big trunks) - (as *Typhlocyba*): !!! 1♂ 4♀♀ dry.

Typhl. 202 - LIGURIA - Staglieno (Stream Bisagno) (GE) - 2-X-57 - H.P. *Quercus sessiliflora* (left orographic slope) - (as *Typhlocyba*) - *?alces* - *?scalaris*: 1♀ dry.

Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, in the middle of defoliated trees) - (as *Typhlocyba*) - Forma typica: 1♂ dry.

Typhl. 274 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Xerothermic oasis) - 22-X-58 - H.P. *Quercus sessiliflora* - (as *Typhlocyba*): !!! 1♂ 3♀♀ dry (to Servadei: 1♂ 3♀♀ April 1971).

Typhl. 289 - LIGURIA - Calizzano (SV) - 21-IX-59 - H.P. *Quercus pedunculata* - (as *Typhlocyba*) - (of the Saint-Béat type): 4♂♂ 5♀♀ in a plastic tube.

Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Quercus pubescens*: 3♂♂ 1♀ dry.

Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Quercus pubescens*: 1♂ 1♀ dry (♂ parasitized by *Aphelopus*).

Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Non karstic small valley, opposite side of the road than Typhl. 351) - 1-X-61 - H.P. *Quercus pubescens*: 1♂ 5♀♀ dry.

Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Quercus sessiliflora*, *Q. cerris*: 4♂♂ 1♀ dry.

Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Quercus sessiliflora* (low part of the foliage of big trees): 3♂♂ 3♀♀ dry.

Typhl. 495 - SICILY - Typhlocybidae of the Istituto Nazionale di Entomologia-Roma - Collected by Hartig in autumn 1949 in Sicily: Etna - Determination of 10-VI-64 - Etna - Pedara (CT) - 600 m - 18-XI-48 on *Quercus cerris* (*Typhlocyba* sp. ♀, W. Wagner det. 1949): ? 1♀.

Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred

road) - 16-VIII-64 - H.P. *Carpinus betulus*: ? 2 ♀ ♀ dry - H.P. *Quercus pubescens*, *Q. aegylops*: 1 ♂ dry.

Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) m 1,100 (near the restaurant on the road Sinj-Livno) - 4-IX-64 - karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - beginning of the North-East slope of Dinara Planina, Dolinas, etc. - m 900 - Very sunny karstic zone, with low *Quercus* bushes at 2-3 Km downstream of Vaganj, towards Sinj - H.P. *Quercus cerris* and *Q. pubescens* (bushes): 4 ♂ ♂ 1 ♀ dry.

Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (near *Q. ilex*): 1 ♂ dry.

RIBAUTIANA cruciata (Ribaut, 1931)

Typhl. 18 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Alnus incana* (along a ditch with water) - (as *Typhlocyba*): 1 ♀ dry (without spots on head and thorax. Wings yellowish with spots and infumations missing at the end).

Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): !! 1 ♂ dry.

Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2 ♂ ♂ 2 ♀ ♀ dry - (sent to Servadei, April 1971).

Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - H.P. !*Ulmus campestris*: 2 ♂ ♂ 1 ♀ dry (poorly pigmented specimens).

Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Ulmus campestris*: 7 ♀ ♀ dry.

Typhl. 358 - FRIULI-VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Populus alba*: 1 ♂ dry.

Typhl. 371 - SARDINIA - S. Gregorio-S. Priamo (CA) - 18-X-61 - H.P. *Ulmus campestris* (hedge near vineyards): 2 ♂ ♂ dry.

Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Ulmus campestris*: 1 ♂ dry, ♀ ♀ not prepared.

Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Ulmus campestris* [(bushes under *Quercus* mentioned above (*Q. sessiliflora*, editor's note))]: 2 ♂ ♂ 1 ♀ dry.

Typhl. 493 - SARDINIA - Bonnanaro (SS) - (Logudoru) - m 405 - 1-VI-64 - H.P. *Ulmus campestris*: 1 ♂ 4 ♀ ♀ dry - (Cfr. Typhl. 279).

Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Ulmus campestris*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 896 - TUSCANY - Pisa - (S. Rossore Park) - 15-V-87 - (Leg. M. Conti) - H.P. *Rubus* sp.: 7 ♂ ♂ (collection Garino).

RIBAUTIANA debilis (Douglas, 1876)

Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree: 2 ♂ ♂ 2 ♀ ♀ + nymph parasitized by *Aphelopus*! - Not preserved - (determination December 1960).

- Typhl. 01 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 11-IX-55 - H.P. apple tree: 4♂♂ newly emerged (poorly pigmented) - (determination December 1960).
- Typhl. 02 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 20-IX-55 - H.P. apple tree: 4♂♂ 1♀ (from nymphs on apple leaves!) - 2♂♂ 1♀ dry. Presence of many nymphs of both species (*E. rosae*, editor's note) - (determination December 1960).
- Typhl. 03 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 10-X-55 - H.P. apple tree: 5♀♀ newly emerged dry - (determination December 1960).
- Typhl. 1 - PIEDMONT - Bussoleno (TO) - 13-X-55 - H.P. *Cydonia vulgaris*: 1♂ 1♀ - (determination December 1960).
- Typhl. 3 - PIEDMONT - Susa (TO) - (road to Cesana) - 13-X-55 - H.P. *Populus alba* - *Typhlocyba* sp. (group *T. ulmi*) - single specimen on the lower page of a leaf - according to Ribaut, considering the length (less than mm 3.5); the mentioned individual is ♂ and measures mm 3.40. It should be *T. debilis* Douglas, but it has two black spots on the vertex, though it is not parasitized. On the other hand, being less than mm 3.5 long, it should not be *T. ulmi* L. - Prepared dry.
- Typhl. 9 - PIEDMONT - Caluso (TO) - 16-X-55 - adults of *Typhlocyba* ?*ulmi* collected on *Rubus fruticosus* along an etiolated hedge separating Bianco's and Scapino's orchards. Of 17 individuals collected, 15 are ♀♀ and only 2♂♂, the latter are without the black spots on vertex, pronotum, and scutellum, as well as most of the ♀♀. 1♀ is parasitized by a dryinid larva - in alcohol 1♂ 4♀♀ (not yet determined) - H.P. *Rubus fruticosus* - (as *Typhlocyba*): ! 2♀♀ dry.
- Typhl. 18 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Alnus incana* - (along a ditch with water) - (as *Typhlocyba*) of the *ulmi* group: 3 individuals - 1♂ (with a dryinid larva) with two spots on the vertex, one spot on the pronotum, and one on the scutellum, faint spots at the end of the wings - 1♂ with a spot on the pronotum and one on the scutellum. Wings uniformly yellow except the apical cells that are faintly infumate - 1♀ *T. cruciata*, editor's note - all dry.
- Typhl. 19 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Salix caprea* - (along a ditch with water) - (as *Typhlocyba* of the *ulmi* group): 3♂♂ apparently of the same species; everyone with the single black spot on the scutellum - 2 are put in alcohol (cfr. also the 3 adults of the same group, Typhl. 18, prepared dry).
- Typhl. 20 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Populus alba* - (along a ditch with water) - (as *Typhlocyba* of the *ulmi* group): 1♂ dry with a spot on the pronotum and one on the scutellum (cfr. Typhl. 18 and Typhl. 19, because the *Populus* plant on which the insect was collected is between those of *Alnus* and *Salix* that hosted the other typhlocybines of the same group and perhaps of the same species).
- Typhl. 27 - PIEDMONT - Caluso (TO) - (Picco Giovanni's apple grove) - 20-XI-55 - H.P. apple tree: presence of many adults of the following genera (*Typhlocyba*, *Erythroneura*, editor's note) on the lower page of apple leaves. They are many above all on the leaves of basal suckers. I do not find any parasitized by dryinids (as *Typhlocyba* of the *ulmi* group): 2♂♂ in alcohol. Very pigmented with sulphur yellow.
- Typhl. 38 - PIEDMONT - Condove (TO) - (Canal along the military road to Susa) - 3-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 4♂♂ (2 dry and 2 in alcohol).

- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia and Bianco's properties) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♂ 1♀ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♀ ♀ dry.
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. *Malus communis* - (as *Typhlocyba*): 1♂ 1♀ dry.
- Typhl. 72 - PIEDMONT - Caluso (TO) - (Monti Barbisin's apple grove) - 18-XI-56 - H.P. *Malus communis* - (as *Typhlocyba*) - 9 individuals of which: 4♂♂ (in alcohol), 5♀ ♀ (1 phot., 4 in alcohol).
- Typhl. 73 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 24-XI-56 - H.P. apple tree - (as *Typhlocyba*): 1♂ 2♀ ♀ dry.
- Typhl. 79 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field) - 30-III-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): !presence of newly hatched neanids on the lower page of the new more developed leaflets.
- Typhl. 85 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field and hedge of Tululena's field; hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*) - The "present" host plant is bramble, while in autumn it was grapevine. The several adults are reared on brambles, but it is difficult that the ♀ ♀ will lay eggs, because their host plant should be *Salix* (Ribaut). Now I find very few adults of other typhlocybids on brambles (besides *Erythroneura simplex*, editor's note). Neanids and nymphs of ?*debilis* and ?*rosae* are fairly abundant.
- Typhl. 118 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 22-VI-57 - H.P. *Malus communis* - (as *Typhlocyba*): 1♀ dry (phot. 4,082: ♀ dorsal).
- Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, on the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Typhlocyba*): 2♂♂ 1♀ dry (to Dlabola).
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Typhlocyba*): 1♂ 1♀ not prepared.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *Typhlocyba*): 2♀ ♀ not prepared.
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (Dora Riparia Valley) - (On the left of the military road) - (as *Typhlocyba*) - 22-X-58 - H.P. *Alnus incana*: 1♀ not prepared - S. Giorio (TO) - (Xerothermic oases) - H.P. *Quercus sessiliflora*: !!! 1♂ not prepared.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♀ ♀ not prepared.
- Typhl. 280 - PIEDMONT - Villar Perosa (TO) - (road to Pra Martino) - 17-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 3♂♂ (in a plastic tube), 25♀ ♀ (dry and in a plastic tube).
- Typhl. 284 - PIEDMONT - Turin - (S. Vito) - (Cfr. Typhl. 278, 279) - 27-V-59 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♂♂.

- Typhl. 296 - LOMBARDY - Material of prof. G. Domenichini - Institute of Entomology, University of Milan - December 1960 - Campolongo (Caronno Varesino, VA) - H.P. apple tree: 6♂♂ 6♀♀.
- Typhl. 315 - CALABRIA - Sila Piccola - (Lorica near the lake Arvo, Mazzei Giuseppe's house - bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Malus communis*: 1♂ 1♀ not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Cydonia vulgaris*: 1♂ 2♀♀ dry.
- Typhl. 377 - SARDINIA - Cagliari - Iglesias - (Halfway between Iglesias and Domusnovas) - 19-X-61 - H.P. *Rubus fruticosus*: 1♂ dry.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (SS) - (Near the mine) - 10-VIII-62 - H.P. *Rubus fruticosus*: 3♂♂ 1♀ dry (not yet pigmented specimens) - H.P. *Alnus glutinosa* (occasional host plant: day of strong wind): 1♂ dry.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Wind!): ♂♂♀♀ (2♂♂ dry) - H.P. *Rubus ?fruticosus*: ! 4♂♂ 9♀♀ dry. Presence of adults and juveniles.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Sorbus aria* !v *obtusifolia*!: 6♂♂ 25♀♀ dry - H.P. *Crataegus monogyna*: 7♂♂ 5♀♀ dry - H.P. *Rosa* sp.: 2♂♂ not prepared.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - H.P. *Rubus* sp. (m 1,150~ - fountain): ♂♂♀♀ not prepared.
- Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Corylus avellana* (small valleys to the Guddetorgiu pass): 1♂ 8♀♀ dry.
- Typhl. 492 - SARDINIA - Fonni (NU) - (Ponte R. Ilodei, road Fonni-Mamoiada) - m 1,100 - 31-V-64 - H.P. *Alnus glutinosa*: 1♂ 2♀♀ dry.
- Typhl. 493 - SARDINIA - Bonnanaro (SS) - (Logudoru) - m 405 - 1-VI-64 - H.P. *Ulmus campestris*: ? 4♀♀ dry (2 black spots on the vertex, but light abdomen) - (the 1st ♀ was parasitized by a pipunculid).
- Typhl. 529 - JUGOSLAVIJA - Montenegro - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Malus pumila*: ♂♂♀♀ not prepared.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Malus* (?*communis*), railing towards the exhibition hall: 3♂♂ 1♀ dry.

RIBAUTIANA scalaris (Ribaut, 1931)

- Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - H.P. *Quercus sessiliflora* (left orographic slope) - (as *Typhlocyba*) - ?*alces* or ?*scalaris*: 1♀ dry.
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Typhlocyba*): !!! 1♂ dry. ?*alces* or ?*scalaris*: 5♂♂ (2 parasitized) in alcohol, 9♀♀ (4 dry, 5 in alcohol).
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone)

- 1-X-61 - H.P. *Quercus pubescens*: ? 6 ♀ ♀ dry.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 1 ♂ 3 ♀ ♀ dry.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - (or *alces*?) - SICILY - Mount Manfrè (CT) - (Chestnut grove) - 29-VIII-78: 4 ♂ ♂ - Cava Carosello (CT) - 2-VII-79: 1 ♀ (*Ribautiana* sp.).
- Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (near *Q. ilex*): 3 ♂ ♂ 3 ♀ ♀ dry. Phot.: ♂ mm 3.25; ♀ mm 3.60.
- Typhl. 897 - PIEDMONT - Biella - (Chiavazza) - (Leg. Alma, Bosco) - 26-V-87 - H.P. *Quercus suber*: 1 4th instar nymph.

RIBAUTIANA tenerrima (Herrich-Schäffer, 1834)

- Typhl. 9 - PIEDMONT - Caluso (TO) - 16-X-55 - Adults of *Typhlocyba ?ulmi* collected on *Rubus fruticosus* along an etiolated hedge separating Bianco's and Scapino's orchards. Of 17 individuals collected, 15 are ♀ ♀ and only 2 ♂ ♂, the latter are without the black spots on vertex, pronotum and scutellum, like most of the ♀ ♀ too. 1 ♀ is parasitized by a dryinid larva - in alcohol 1 ♂ 4 ♀ ♀ (not yet determined) - (as *Typhlocyba*): ! 1 ♂ 6 ♀ ♀ dry.
- Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* (bushes) - (as *Typhlocyba*) - 6 adults of which: 2 ♂ ♂ 4 ♀ ♀ all without the black spots on vertex, pronotum and scutellum - 1 ♂ 1 ♀ dry - 1 ♂ 3 ♀ ♀ in alcohol. N.B.: no parasitized specimens.
- Typhl. 15 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Rubus fruticosus* - (as *Typhlocyba*) - ?Present with plenty individuals on the lower page of the leaves. Of the 8 specimens collected, 5 are parasitized by dryinids. 2 of their larvae have however abandoned quickly the victim spinning their cocoon among bramble leaves - (reared the 2 cocoons on 19-X-55 with relative hosts) and 1 adult from which the dryinid larva must still get free. Of the 8 individuals, all without the spots on vertex, pronotum and scutellum (4 ♂ ♂ 4 ♀ ♀, 2 of which contain the dryinid larva), 2 ♂ ♂ 2 ♀ ♀ (1 with the dryinid) are put in alcohol and other 2 ♂ ♂ 2 ♀ ♀ (1 with the dryinid) are prepared dry.
- Typhl. 36 - PIEDMONT - Funghera (TO) - (Near the station) - 28-IX-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1 ♀ dry.
- Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♀ dry.
- Typhl. 38 - PIEDMONT - Condove (TO) - (Canal along the military road to Susa) - 3-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1 ♂ 1 ♀ in alcohol, 1 ♀ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 60 - PIEDMONT - Caluso (TO) - (Salvetti's thicket - Regione Aiè) - 20-X-56 -

- H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2♂♂ 2♀♀ dry.
- Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - (cfr. Typhl. 80) - 20-X-56 - H.P. *Alnus glutinosa* - (as *Typhlocyba*): 1♀ in alcohol.
- Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Strong bushes made of basal suckers grown 3-4 months ago after felling big trees to install the tension line. The foliage is thick and green, while that of normal bushes is scanty and yellow - (as *Typhlocyba*): 1♀ dry.
- Typhl. 64 - PIEDMONT - Caluso (TO) - (hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 1♂ dry - (The aedeagus characters correspond to *T. tenerrima* but the yellow colour of the elytra is like that of *T. debilis*) - (Cfr. Typhl. 47).
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Typhlocyba*): 15 individuals of which: 8♂♂ (3 dry, 5 in a plastic tube), 7♀♀ (1 dry, 6 in a plastic tube).
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. privet (Picco's hedge) - (as *Typhlocyba*): 1♀ not prepared.
- Typhl. 96 - PIEDMONT - Caluso (TO) - (Bramble hedge, Podio Guglielmo's field) - 22-V-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (Gargano) (FG) - (Near the convent) - m 600 ~ - 5-VI-57 - H.P. *Quercus cerris* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Follocare (FG) - 6-VI-57 - H.P. *Quercus cerris* - (as *Typhlocyba*): 1♂ 1♀ dry.
- Typhl. 117 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's hedge and surroundings) - 22-VI-57 - H.P. *Rubus fruticosus* - (Tululena's hedge) - (as *Typhlocyba*): 1♀ with *Aphelopus* not prepared.
- Typhl. 159 - PIEDMONT - Graverre (TO) - (Susa Valley) - 6-VIII-57 - H.P. *Salix alba* - (as *Typhlocyba*): 1♂ dry.
- Typhl. 167 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 19-VIII-57 - H.P. *Agri-
monia eupatoria* (several depigmented leaves, presence of some adults of the following species: *Erythroneura angusta*, *Typhlocyba rosae*, *T. tenerrima*): ♂♂ ♀♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *Typhlocyba*): 2♂♂ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *Typhlocyba*) - H.P. *Corylus avellana*: 2♂♂ 1♀ dry (in the understorey near brambles) - H.P. *Rubus fruticosus*: 2♂♂ 2♀♀ not prepared - H.P. *Carpinus betulus*: 2♂♂ not prepared.
- Typhl. 190 - PIEDMONT - Stupinigi (TO) - (Wood on the right of the road to Pinerolo) - 18-IX-57 - H.P. *Quercus pedunculata* - (as *Typhlocyba*): 2♂♂ 1♀ not prepared.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa*: 1♂ 1♀ not prepared.
- Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 1♂ 3♀♀ not prepared.

- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 2 ♀ ♀ not prepared.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Typhlocyba*): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - Small hills in the middle of the valley - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Typhlocyba*): 1 ♂ dry.
- Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): ! 1 ♂.
- Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - (as *Typhlocyba*) - H.P. *Quercus* (tall bushes): 2 ♀ ♀ not prepared - H.P. *Rubus fruticosus* (uprising, understorey of a coppice): 3 ♂ ♂ 21 ♀ ♀ not prepared.
- Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - 22-X-58 - m 1,000 - (as *Typhlocyba*) - H.P. *Salix purpurea* (low and very leafy bushes): 1 ♂ not prepared - Bussoleno (TO) - (On the left of the military road) - H.P. *Alnus incana*: 1 ♂ not prepared - H.P. *Populus alba*: 1 ♂ not prepared - H.P. *Rubus fruticosus*: 1 ♂ 1 ♀ not prepared.
- Typhl. 278 - PIEDMONT - Turin - (road of S. Vito) - 9-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 3 ♀ ♀ not prepared.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 5 ♀ ♀ not prepared.
- Typhl. 284 - PIEDMONT - Turin - (S. Vito) - 27-V-59 - (Cfr. Typhl. 278-279) - H.P. *Rubus fruticosus* - (as *Typhlocyba*): 2 ♂ ♂.
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - (Slope of Calizzano) - m 1,028 - 21-IX-59 - H.P. *Corylus avellana* - (as *Typhlocyba*): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 308 - VENETIA - Peschiera (VR) - Hills (xerothermic areas) South of Peschiera (3-4 Km from the city), on the right of the road to Goito - 8-VI-61 - H.P. *Rubus caesius* (hedge near oakwood and very depigmented leaves): 4 ♂ ♂ 5 ♀ ♀ dry (newly emerged specimens, including 1 ♀ parasitized by *Aphelopus*).
- Typhl. 309 - LOMBARDY - Goito (MN) - (road to Peschiera) - hamlet Sacca - 8-VI-61 - H.P. *Rubus caesius*: 2 ♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 315 - CALABRIA - Sila Piccola - (Lorica near the lake Arvo, Mazzei Giuseppe's house - bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Rubus ?caesius* (under a pinewood): 2 ♂ ♂ 2 ♀ ♀ dry (10 ♀ ♀, of which one parasitized by *Aphelopus*, not prepared).
- Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - 10-VII-61 - River Simeto (m 10) - H.P. *Rubus fruticosus*: 2 ♂ ♂ 6 ♀ ♀ not prepared.
- Typhl. 334 - SARDINIA - Arcu Correboi Valley (NU) - (Before the pass, towards Fonni, near the isolated barracks of Carabinieri, along the road Fonni-Lanusei) - 14-VIII-61 - H.P. *Rubus fruticosus*: 1 ♂ dry.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus*: 3 ♂ ♂ 1 ♀ not prepared - H.P. *Castanea sativa*: 1 ♂ 1 ♀ not prepared.

- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Rubus caesius*: 2♂ ♂ 3 ♀ ♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Corylus avellana*: 1♂ 2 ♀ ♀ not prepared.
- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Salix laurita*: 1♂ 2 ♀ ♀ not prepared - H.P. *Rubus fruticosus*: 2♂ ♂ 1 ♀ not prepared.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel and along the seaside) - 3-X-61 - H.P. *Rubus fruticosus*: 1♂ 1 ♀ not prepared.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 2♂ ♂ 1 ♀ not prepared.
- Typhl. 377 - SARDINIA - Cagliari - Iglesias - (Halfway between Iglesias and Domusnovas) - 19-X-61 - H.P. *Rubus fruticosus*: 2♂ ♂ dry.
- Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - H.P. *Quercus ilex*: ? 1 ♀ dry.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Rubus fruticosus*: ! 2♂ ♂ 1 ♀ dry - H.P. *Alnus glutinosa*: 2♂ ♂ 1 ♀ dry.
- Typhl. 406 - SARDINIA - Caprera (SS) - 13-VIII-62 - H.P. *Rubus fruticosus*: ! 2♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 - 14-VIII-62 - H.P. *Castanea sativa* (m 900) - (Relatively small and bushy plants, in a reforestation among *Erica scoparia*, small holm oaks, *Arbutus unedo*, *Rubus fruticosus*, etc.) - Windy day: 3♂ ♂ 1 ♀ dry.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana*: 2♂ ♂ 1 ♀ not prepared.
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Quercus lanuginosa*: 2♂ ♂ 3 ♀ ♀ dry.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - (North slope; shaded understory, *Castanea*, *Acer*) - 15-IX-62 - H.P. *Carpinus betulus* (low bushes, tender vegetation): ! 5♂ ♂ 5 ♀ ♀ not prepared - H.P. *Acer pseudoplatanus* (low bushes, beechwood): 2♂ ♂ not prepared.
- Typhl. 422 bis - LIGURIA - Mortola (IM) - (Curve before the bridge S. Luigi) - 15-IX-62 - H.P. *Rubus fruticosus*: ! 2♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understory, cool and exposed northwards) - 21-IX-62 - H.P. *Rubus fruticosus*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 446 - SICILY - Ventimiglia (PA) - (Leg. dr Sampò) - 10-X-62 - H.P. *Quercus lanuginosa*: 3♂ ♂ 2 ♀ ♀ dry.
- Typhl. 474 - TUSCANY - Collesalveti (LI) - 20-IX-63 - H.P. *Quercus cerris*: 2♂ ♂ not prepared.

- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Wind!): ♂ ♂ ♀ ♀ - 2♂-♂ dry - H.P. *Rubus ?fruticosus* - !adults and juveniles: 9♂ ♂ 13 ♀ ♀ dry.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Sorbus aria* !v *obtusifolia*: ! 5♂ ♂ 12 ♀ ♀ dry - H.P. *Crataegus monogyna*: 10♂ ♂ 17 ♀ ♀ dry - H.P. *Rosa* sp.: 3♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - !!Arcu Guddetorgiu - m 1,150 - (Fountain) - H.P. *Rubus* sp.: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Corylus avellana* (small valleys towards the Guddutorgiu pass): 3 ♀ ♀ dry.
- Typhl. 492 - SARDINIA - Fonni (NU) - (Ponte R. Ilodei, road Fonni-Mamoiada) - m 1,000 - 31-V-64 - H.P. *Alnus glutinosa*: 2♂ ♂ 1 ♀ dry.
- Typhl. 493 - SARDINIA - Bonnanaro (SS) - (Logudoru) - m 405 - 1-VI-64 - H.P. *Quercus pubescens*: 1♂ 2 ♀ ♀ dry - H.P. *Ulmus campestris*: 1♂ 1 ♀ dry - To Servadei, April 1971.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,300 - (Locality near Njeguši - on the road Kotor-Cetinje) - 7-IX-64 - H.P. *Rubus ?fruticosus*: 3♂ ♂ 1 ♀ dry.
- Typhl. 581 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 18-VI-78 - H.P. *Rubus caesius*: 3♂ ♂ 2 ♀ ♀ dry.
- Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing near *Calluna vulgaris* patches and on the edges of birch and chestnut woods) - H.P. *Rubus idaeus* (cultivated): 4♂ ♂ 9 ♀ ♀ dry.
- Typhl. 590 - TUSCANY - Grosseto - Marina (GR) - 19-VIII-80 - H.P. *Rubus fruticosus*: ? 2 ♀ ♀ not prepared.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Quercus cerris* (suckers grown in coppice with *Fraxinus* near *Prunus spinosa*, etc.): 2♂ ♂ 2 ♀ ♀ dry - phot. (...) Wild: ♀ mm 3.3 - ♀ mm 3.0 - H.P. *Corylus avellana*: 1♂ dry - phot. (...) Wild.
- Typhl. 621 - PIEDMONT - Capriata d'Orba (AL) - (Rock in front of the cemetery) - 16-VIII-81 - H.P. *Alnus glutinosa* (windy day): 1♂ not prepared.
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Quercus cerris* and *Q. pubescens*: 2♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 633 - PIEDMONT - Gattinara - Baraggia (VC) - 17-IX-81 - H.P. *Betula pendula*! (near *Rubus*): 1♂ dry.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 15-VII-84 - H.P. *Crataegus ?monogyna*: 1♂ not prepared.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - H.P. *Corylus avellana*: 3♂ ♂ 2 ♀ ♀ not prepared (2♂ ♂ and 2 ♀ ♀ pipunculidized).
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana* - abundant on the plot borders, meadows, mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 1♂ 1 ♀ dry.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 950 - 16-IX-84 - H.P. *Betula*

pendula (young and luxuriant plants, near *Fagus*, *Salix* and *Rubus*, in a grassy and humid plain): 1 ♀ dry.

Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - (slope of Garesio) - H.P. *Corylus avellana* (near chestnuts, beeches, willows, maples, upstream) - first bush: 1 ♂ not prepared.

Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Corylus avellana*: 1 ♀ not prepared.

Typhl. 740 bis - PIEDMONT - S. Michele Mondovì (CN) - 27-IX-84 - m 600 - H.P. *Corylus avellana* (cultivated): 2 ♂ ♂ 2 ♀ ♀ not prepared.

Typhl. 746 - LOMBARDY - Rovescala (PV) - May-June 1984 - Material in alcohol - Leg. prof. Domenichini - Rovescala (PV) - 30-V-84 - H.P. grapevine: 9 ♂ ♂ 4 ♀ ♀; 2 ♂ ♂ 5 ♀ ♀ (2 ♂ ♂ 2 ♀ ♀ dryinidized).

Typhl. 758 - PIEDMONT - Castellazzo (AL) - (River Bormida) - 9-VI-85 - H.P. *Quercus cerris*: 2 ♂ ♂ 1 ♀ not prepared.

Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 1 ♂ not prepared.

Typhl. 875 - LOMBARDY - Lenno (CO) - 3-X-86 - H.P. *Ostrya carpinifolia* (very depigmented leaves): 1 ♀ not prepared.

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 2 ♂ ♂ 4 ♀ ♀ dry.

Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Corylus avellana*: 1 ♀ not prepared.

Typhl. 912 - PORTUGAL - Oporto - (Park Boega Hotel) - (Preparation dr Alma) - 11-VI-88 - H.P. *Vitis labrusca* (on *Rubus*): 6 ♀ ♀ dry.

RIBAUTIANA ulmi (Linnaeus, 1758)

Typhl. 9 - PIEDMONT - Caluso (TO) - 16-X-55 - Adults of *Typhlocyba ?ulmi* collected on *Rubus fruticosus* along an etiolated hedge separating Bianco's and Scapino's orchards. Of 17 individuals collected, 15 are ♀ ♀ and only 2 ♂ ♂, the latter are without the black spots on vertex pronotum and scutellum, as well as most of the ♀ ♀. 1 ♀ is parasitized by a dryinid larva - in alcohol 1 ♂ 4 ♀ ♀ (not yet determined).

Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* (bushes): 1 ♀ dry. N.B.: not parasitized.

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Typhlocyba*): 1 ♀ dry.

Typhl. 115 - PIEDMONT - Carignano-Salsasio (TO) - (Bridge on the Po, on the right of the road Carignano-Carmagnola) - 21-VI-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*): 1 ♂ 1 ♀ dry - phot. 4,079: ♀.

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Typhlocyba*): 1 ♂ dry.

Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* - (as *Typhlocyba*) - (topped plants on the right and hedge on the left of the road leading to the pheasant's re-

serve): 12♂♂ (3 dry, 9 in alcohol), 16♀♀ (2 dry, 14 in alcohol) - (Living preferably on the topped plants, on the low branches).

Typhl. 209 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 6-X-57 - H.P.

Ulmus campestris - (as *Typhlocyba*): ♂♂♀♀ not prepared.

Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Celtis australis* - (as *Typhlocyba*): 1♂ dry.

Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Ulmus pumila* - (as *Typhlocyba*): 1♂2♀♀ not prepared.

Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Ulmus campestris* - (as *Typhlocyba*): ♂♂♀♀ not prepared.

Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavaranche) - m 1,200 ~ - 15-IX-59 - H.P. *Ulmus montana* - (the plants with more depigmented leaves and thus hosting a greater number of neanids and nymphs are those near the dusty road of Valsavaranche. The adults are few) - (as *Typhlocyba*): newly hatched ♂♂♀♀ not prepared.

Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 1♀ dryinidized dry (from *Ulmus*).

Box 32

GENUS *TYPHLOCYBA* Germar, 1833

TYPHLOCYBA chobauti (Ribaut, 1952)

Typhl. 429 - TUSCANY - Elba Island - Volterraio (LI) - 21-IX-62 - Mediterranean maquis mostly with *Q. ilex* (presence of also *Erica scoparia*, *Arbutus unedo*, *Clematis vitalba*, *Rubus fruticosus*, etc.) on the left of the road to Rio nell'Elba and at the foot of the promontory on top of which there is the castle of Volterraio. The precise collecting locality is taken in the 2nd photograph of sheet VIII (excluding the cover) of the illustrated booklet ELBA - Pubbl. M & G Tognoli-Livorno - H.P. *Quercus ilex* (bushes 2-3 m tall, collected at h 10) - (Cfr. Typhl. 463, 480, T. 92 Arzone, in study) - *Typhlocyba* (*Dryocyba* n. subg.) *ilicicola* n.sp.: 3♂♂2♀♀ - **Drawings** of aedeagus and stylus - Close to *Typhlocyba chobauti* Ribaut 1952, above all concerning the male genital appendages. Basic colour creamy. Pronotum of the ♂ with two submedian lemon yellow stripes. Elytra of the ♂ lemon yellow with light clavus towards the clavo-chorial suture, infumate distally (in the ♀ too). Third tarsomere of metathoracic legs of the ♂ brown. Cfr. *Youngiada Löwi* Lethierry, Dlabola 1958 - N.B.: in the ♂ the tibia and the 1st tarsomere of the metathoracic legs have a brown stripe in correspondance with the latero-dorsal row of setae or spines; moreover the medial row of setae of the metathoracic tibiae is brownish (in part in the ♀ too). In the ♀ the elytra are very yellow only in corrispondance with the commissure at the level of the clavus and on the cubital vein. All the chromatic characteristics are well preserved in all specimens. Phot. 10,359: ♂, length mm 2.8; 10,360: ♀, length mm

3.3; 10,361: ♀, length mm 3.5 (elytra mm 2.7) - Length of the other 2♂♂ mm 2.7 and 2.9.

Typhl. 463 - LIGURIA - Locality between Molini di Triora and Pigna (Colle di Langan) (IM) - 15-VIII-63 - H.P. *Quercus ilex* - (Cfr. Typhl. 429, 480) - as *Typhlocyba (Dryocyba) ilicicola* Vidano: 1♂, length mm 2.8, dry; 1♀, length mm 3.3, in a plastic tube. Specimens very similar to those of Elba (Typhl. 429) by size and above all by the colour of the ♂ (pronotum, elytra and hind legs). I must check the type and the paratypes of *T. chobauti* Ribaut (loc. typ. Avignon) that are preserved in M.A. Morère's collection (at Pré Saint-Gervais, SEINE). Phot. 11,761: ♀.

Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Quercus ilex* - [as *Typhlocyba (Dryocyba) ilicicola* Vidano]: 3♂♂ 4♀♀ dry - (Cfr. Typhl. 429, 463).

TYPHLOCYBA quercus (Fabricius, 1777)

Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8 m tall): 64 individuals of which: 30♂♂ (5 dry, 25 in alcohol), 34♀♀ (5 dry, 29 in alcohol) - phot. 4,090: *Quercus* leaf; 4,091: ♂; 4,092: tegmen and wing of a ♂; 4,093: tegmen of a ♀ - H.P. *Rhamnus frangula*: 1♂ 1♀ (in copula dry) probably arrived from nearby oaks. They died after 1 day in the glass tube with only *Rhamnus* leaves at their disposal.

Typhl. 122 - PIEDMONT - Turin - (Botanical gardens) - 4-VII-57 - H.P. *Quercus robur*: 1♀ dry.

Typhl. 127 - PIEDMONT - Stupinigi (TO) - (road to Pinerolo) - 5-VII-57 - H.P. *Quercus pedunculata*: 3♂♂ 1♀ dry.

Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal: Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata*: 1♂ 1♀ dry.

Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Betula alba*: 1♀ dry.

Typhl. 306 - PIEDMONT - Fiano-La Cassa (TO) - 31-V-61 - H.P. *Quercus pedunculata*: 3♂♂ 5♀♀ dry.

Typhl. 399 - CAMPANIA - Avellino (AV) - (Laboratorio Entomologia Agraria, Portici) - Sent by dr Viggiani - 12-VII-62 - H.P. *Corylus avellana*: 3♂♂ 3♀♀ - Material sent back to dr Viggiani on 24-VII-62.

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Quercus pedunculata*: 2♀♀ dry.

Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Castanea sativa* (Windy day!) in this area there are also *Quercus*, *Corylus*, *Carpinus*, *Ostrya*: !! 1♀ dry.

Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Quercus pedunculata*: 1♂ 4♀♀ dry - H.P. *Crataegus monogyna*: ♂♂ ♀♀ not prepared.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - New Forest - Hampshire - 12-VII-64 - H.P. *Prunus spinosa*: 6♂♂ 8♀♀ dry - H.P. *Quercus pedunculata*: 1♂ 6♀♀ not prepared.

- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Quercus pedunculata* (railing towards Medieval castle): 3 ♀ ♀ not prepared - H.P. *Betula verrucosa* (railing towards Medieval castle): 2 ♀ ♀ not prepared - H.P. *Betula verrucosa* (railing towards playing ground): 2 ♀ ♀ not prepared.
- Typhl. 685 - PIEDMONT - Turin - (Valentino Park) - 22-VI-84 - H.P. *Betula verrucosa* (rearings Demichelis): 6♂♂ 6♀♀ + nymphs not prepared.
- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Betula pendula*: 1♂ 10♀♀ - 1♂ 3♀♀ dry.
- Typhl. 700 - PIEDMONT - Almese (TO) - (Susa Valley) - 15-VII-84 - H.P. *Prunus avium*: 1♂ 1♀ not prepared!! + 1♂ reared from a nymph on 17-VII-84 not prepared - I searched a lot, on many plants, *Aguriahana stellulata* but without any success.
- Typhl. 719 - GERMANY - Hamburg - W. Germany - Park "Planten un Blomen" - 24-VI-II-84 - (XII International Congress of Entomology) - Leg. Vidano and Arzone - H.P. *Tilia intermedia* (cultivar: data on the label) - Leaves covered with honeydew (*E. tiliae*) and sooty moulds: 1♀ dry.
- Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - H.P. *Vitis vinifera* - Leg. Vidano-Arzone: 2♀♀ not prepared (presence of *Quercus* in this area).
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Quercus robur*: 2♀♀ not prepared (1♀ dryinidized).

GENUS *ZONOCYBA* Vilbaste, 1982*ZONOCYBA bifasciata* (Boheman, 1851)

- Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, on the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Typhlocyba bifasciata* forma typica): 2♂♂ in alcohol. Phot. 4,143: ♂; phot. 4,144: tegmen and wing.
- Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1♀ dry.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata* forma typica): 1♀ dry.
- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 12-X-57 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1♀ dry.
- Typhl. 263 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 10/15-VIII-58 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 4♂♂ (2 dry, 2 in alcohol), 5♀♀ (2 dry, 3 in alcohol) - (One of the ♀♀ reared from a nymph: exuvia in alcohol), presence of mature nymphs and nymphal exuviae (10-VIII-58).
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1♀ not prepared.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1♂ 3♀♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1♂ 2♀♀ dry.
- Typhl. 662 - PIEDMONT - Turin - (Valentino Park) - 19-VIII-83 - H.P. *Betula verrucosa* (railing towards the playing ground) - (as *Typhlocyba bifasciata*): 2♀♀ escaped.

- Typhl. 685 - PIEDMONT - Turin - (Valentino Park) - 22-VI-84 - H.P. *Carpinus betulus* - (as *Typhlocyba bifasciata*): 1 ♂ (rearings Bosco).
- Typhl. 691 - PIEDMONT - Turin - (Piazza De Amicis corner Corso Dante) - 1-VII-84 - H.P. *Betula verrucosa* - (as *Typhlocyba bifasciata*): 1 ♀ on *Corylus*, *Carpinus* and other host plants).
- Typhl. 876 - LOMBARDY - Villa Olmo (CO) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia* (plants of the park, remarkable leaf depigmentation) - (Presence of *Carpinus betulus*) - (as *Typhlocyba bifasciata*): 4 ♀ ♀ dry.
- Typhl. 877 - LOMBARDY - Villa Olmo (CO) - 5-X-86 - h 9-10 - H.P. *Ostrya carpinifolia* (the same plants observed in the evening of 4-X-86) - (as *Typhlocyba bifasciata*): 2 ♂ ♂ 3 ♀ ♀ dry (a dryinidized ♀) - Leaves with nymphs in plastic bags, to rear adults - (rearings S. Demichelis).
- Typhl. 949 - LOMBARDY - Villa Olmo (CO) - 19-VIII-88 - (Cfr. Typhl. 876 of 4-X-86) - H.P. *Ostrya* and *Carpinus* (the specimens of the different species collected on the low part of the canopy of a same tree) - (as *Typhlocyba bifasciata*): 7 ♂ ♂ 6 ♀ ♀ (2 ♂ ♂ and 5 ♀ ♀ dryinidized).

Box 33

GENUS EURHADINA Haupt, 1929

EURHADINA concinna (Germar, 1831)

- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8-9 m tall) - *Eupteryx* gr. *pulchella* (?*E. concinna* - ?*E. ribauti*): 2 ♀ ♀ dry.
- Typhl. 177 - CAMPANIA - Punta S. Angelo-S. Agata sui Due Golfi (NA) - 4-IX-57 - (Miss Todeschini's property - Miramare-Sorrento) - H.P. chestnut (very depigmented leaves, above all those of the branches nearer to the ground) - (as *Eupteryx*) - 20 adults of which: 4 ♂ ♂ (1 dry, 3 in alcohol), 16 ♀ ♀ (6 dry, 10 in alcohol). Phot. 4,346: ♀; 4,347: tegmen and wing of a ♀.
- Typhl. 180 - CAMPANIA - Punta S. Angelo-S. Agata sui Due Golfi (NA) - 8-IX-57 - H.P. *Quercus cerris* (basal foliage of big trees) - (as *Eupteryx*): 1 ♀ dry (collected near chestnuts as per Typhl. 177).
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Quercus pedunculata* - (as *Eupteryx*): !!! 1 ♂ dry (tegmina of a lemon yellow colour!!!).
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 1 ♀ dry.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Eupteryx* ?*ribauti* = *concinna* Germar): 2 ♀ ♀ dry (near the *Alnus* on which they were collected there is a big oak).
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* - (as *Eupteryx*) - (Topped plants on the right and hedge on the left of the road leading to the pheasant's reserve): ? 1 ♀ dry.

- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Quercus pedunculata* (small bushes) - (as *Eupteryx*): 1♂ 1♀ dry.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - H.P. *Quercus sessiliflora* (left orographic slope) - (as *Eupteryx*): ? 5♀ ♀ dry, no ♂♂.
- Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch, Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Eupteryx*): 1♂ dry (surely arrived from a nearby big oak).
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Eupteryx*): 1♂ 12♀ ♀ dry.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Ulmus campestris* - (as *Eupteryx*): ♂♂ ♀♀ not prepared.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Eupteryx*): 1♀ dry.
- Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 2♀ ♀ dry.
- Typhl. 280 - PIEDMONT - Villar Perosa (TO) - (road to Pra Martino) - 17-XI-58 - H.P. *Rubus fruticosus* - (as *Eupteryx*): 1♀ not prepared.
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - (Slope of Calizzano) - m 650-700 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 3♀ ♀ not prepared.
- Typhl. 306 - PIEDMONT - Fiano-La Cassa (TO) - 31-V-61 - H.P. *Quercus pedunculata*: 2♂♂ 2♀ ♀ dry (1♂ parasitized by *Aphelopus*).
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Castanea sativa* - (as *Eupteryx*): 1♂ 2♀ ♀ dry.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality S. Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Quercus sessiliflora*: ? 2♀ ♀ dry.
- Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Non karstic small valley, on the opposite side of the road than Typhl. 351) - 1-X-61 - H.P. *Quercus pubescens*: ? 1♀ dry.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Quercus pedunculata*: 2♀ ♀ dry.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Castanea sativa*: ? 4♀ ♀ dry.
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Castanea sativa*: ? 1♀ dry.
- Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Quercus sessiliflora*, *Q. cerris* - (as *Eupteryx*): ? 1♀ dry.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Quercus pedunculata*: 2♂♂ 3♀ ♀ dry.
- Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings at 1-2 Km from the railway station) - 12-VII-64 - H.P. *Quercus pedunculata*: 1♂ 5♀ ♀ not prepared - H.P. *Alnus glutinosa*: ? 1♂ 2♀ ♀ dry - **Drawings** of the

aedeagus - H.P. *Betula alba*: 3♂♂ 4♀♀ dry.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - Hampshire - New Forest - 12-VII-64 - H.P. *Betula alba*: 4♂♂ 14♀♀ dry - H.P. *Quercus pedunculata*: 7♀♀ not prepared.

Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) m 1,100 (near the restaurant on the road Sinj-Livno) - 4-IX-64 - karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - Beginning of the North-East slope of Dinara Planina, Dolinas, etc. - m 900 - Very sunny karstic zone, with low *Quercus* bushes 2-3 Km downstream of Vaganj, towards Sinj - H.P. *Quercus cerris* and *Q. pubescens* (bushes): 3♀♀ dry.

Typhl. 615 - PIEDMONT - Francavilla Bisio - stream Lemme - 9-VIII-81 - (storm!) - H.P. *Alnus glutinosa*: exuvium of a 5th instar nymph - phot. (...) Wild 20x, length mm 3.40 - ♀ phot. (...) Wild 20x, length mm 3.50 (2♀♀ dry, emerged from nymphs in the laboratory).

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Quercus robur* (*sessiliflora*?): 4♀♀ dry, 22♀♀ (very depigmented leaves) not prepared.

Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 2♀♀ dry.

Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa*: 2♂♂ 1♀ dry.

Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Quercus pedunculata* (railing towards Medieval castle): 1♀ dry.

Typhl. 679 - PIEDMONT - Bussoleno (Foresto) (TO) - 14-VI-84 - *Quercus pubescens*, depigmented leaves (nymphs reared by Bosco): 1♂.

Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Betula verrucosa* (slope of Cumiana): 1♀ dry.

Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Betula pendula* (young and luxuriant plants, near *Fagus*, *Salix* and *Rubus*, in a grassy and humid plain): 1♂ (I lost the pygofer, after having examined the aedeagus) - (cfr. Typhl. 735 and 736): 1♂ 1♀ dry.

Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - (Slope of the cableway, along the road: m 1,400) - H.P. *Fagus sylvatica* (near the thicket of *A. viridis*): 1♀ dry.

Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (near *Q. ilex*): 1♂ dry (I lost the pygofer, length mm 3.60).

EURHADINA kirschbaumi (Wagner, 1937)

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana* - abundant on the plot borders, meadows, mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 1♂ dry (*Quercus* missing in the whole area).

Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - (Slope of Garessio) - H.P. *Castanea sativa* (low part of the canopy along the road): 2 ♀ ♀ dry - (Cfr. Typhl. 730 and 736).

EURHADINA loewii (Then, 1886)

Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (Park of the Institute) - 11-VII-64 - H.P. *Acer pseudoplatanus*: !!! 2♂♂ 1♀ dry. Processes of the aedeagus different from those drawn by Ribaut 1936 - 2 **drawings** of the aedeagus.

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Acer pseudoplatanus* (depigmented leaves with black exuviae of 5th instar nymphs) - !!!*Eurhadina loewii*: 4♂♂ 16♀♀. (1♂ 2♀♀ dryinidized - 1♀ with a hypopus). Phot. 1♂ 1♀ normal; 1♂ 1♀ lighter, a nymphal exuvia, 1♂ dryinidized - 1♂ 14♀♀ dry - Many 5th instar exuviae dry - Very depigmented leaves - 2 **drawings** of the aedeagus.

EURHADINA pulchella (Fallén, 1806)

Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8-9 m tall) - (as *Eupteryx*): 3♂♂ var *ornatipennis* Kurtis (1 dry, 2 in alcohol): 1 parasitized by *Aphelopus* - 4♀♀ forma typica (2 dry, 2 in alcohol) - phot. 4,083: ♀; phot. 4,084: tegmen of a ♂ var *ornatipennis*.

Typhl. 121 - PIEDMONT - Caluso (TO) - (Canal) - 30-VI-57 - H.P. *Quercus pedunculata* (high) - (as *Eupteryx*): 1♀ forma typica - 1♀ var *ornatipennis* dry.

Typhl. 127 - PIEDMONT - Stupinigi (TO) - (road of Pinerolo) - 5-VII-57 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 3♀♀ forma typica (yellow) dry.

Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Quercus pedunculata* - (as *Eupteryx*): ! 1♀ forma typica dry.

Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 1♀ dry.

Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Eupteryx*): 1♀ dry.

Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - (as *Eupteryx*): 2♀♀ (yellow) dry.

Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - H.P. *Quercus* (tall bushes) - (as *Eupteryx*): 1♀ (yellow) not prepared.

Typhl. 307 - PIEDMONT - La Cassa-Givoletto (TO) - 31-V-61 - H.P. *Quercus sessiliflora* (bush) - (as *Eupteryx*): 1♀ dry.

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Quercus pedunculata*: 1♂ dry.

Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Quercus pedunculata*: 8♂♂ 1♀ dry.

Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings at 1-2 Km from the railway station) - 12-VII-64 - H.P. *Betula alba*: 1♂ 1♀ not prepared.

- Typhl. 500 - GREAT BRITAIN - Brockenhurst - Hampshire - New Forest - 12-VII-64 - H.P. *Betula alba*: 4♂♂ 1♀ dry - H.P. *Quercus pedunculata*: 3♂♂ 7♀♀ dry.
- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Quercus robur* (?*sessiliflora*): 4♀♀ dry (phot. 1♀: length mm 4.2).
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Quercus pedunculata* (railing towards the Medieval castle): 1♂ dry.

EURHADINA ribauti (Wagner, 1933)

- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - H.P. *Quercus pedunculata* (8-9 m tall) - *Eupteryx* gr. *pulchella* (?*E. concinna* - ?*E. ribauti*): 2♀♀ dry.

BOXES 34-38

GENUS *EUPTERYX* Curtis, 1833

EUPTERYX adspersa (Herrich-Schäffer, 1838)

- Typhl. 171 - AOSTA VALLEY - Gran Paradiso National Park - Valsavarenche (AO) - Tignet, m 1,600 - (Leg. Sampò) - 28-VIII-57 - H.P. *Artemisia absinthium* - (as *Eupteryx gallica* Wagner) - A great number of adults and juveniles of all instars: 6♂♂ 4♀♀ dry - Several ♂♂♀♀ in alcohol - Nymphs and exuviae in alcohol - phot. 4,320: ♂ dorsal; 4,321: tegmina and left wing of a ♂; 4,322: last instar nymph.
- Typhl. 247 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavarenche) - m 1,650 - 17-VI-58 - H.P. *Artemisia absinthium* - (Cfr. Typhl. 171) - (as *Eupteryx gallica* Wagner): 23♂♂ (7 of which parasitized by *Aphelopus*), 3 dry, 12 in alcohol, 8 in a plastic tube; 25♀♀ (10 of which parasitized by *Aphelopus*), 3 dry, 12 in alcohol, 10 in a plastic tube; 5 5th instar nymphs in alcohol.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - 13-IX-59 - Proussaz (AO) - (Rhêmes Valley) - m 1,397 - H.P. *Artemisia absinthium* - (as *Eupteryx gallica* Wagner): ♂♂♀♀ + neanids and nymphs not prepared.
- Typhl. 343 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 19-IX-61 - H.P. *Artemisia absinthium* - (as *Eupteryx gallica* Wagner) - (According to Ribaut 1952) - *E. adspersa* Herrich-Schäffer - (According to Nast 1972): 4♂♂ 1♀ dry - Pointed aedeagus, imperceptible processes, very obvious curving; **drawing** of the aedeagus.

EUPTERYX andalusiaca (Ferrari, 1882)

- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (Bed of the stream Deiva)- 16-VIII-57 - H.P. *Inula viscosa* (Compositae) - (Plant abundant in all the arid locality of this area up to Bracco; the blooming starts in these days. Depigmented leaves): 22♂♂ (4 dry, 10 in alcohol, 8 in a plastic tube), 28♀♀ (6 dry, 8 in alcohol, 14 in a plastic tube). Phot. 4,293: ♀ dorsal; 4,294: 5th instar nymph (head blackish brown, except the anticlypeus that is whitish; thorax dorsally black and ventrally white; wing pads

black; legs yellowish white; abdomen dorsally black with the intersegmental membranes of the uroterga reddish, lateral areas ferruginous brown; urosterni whitish yellow).

- Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - 17-VI-II-57 - H.P. *Satureja montana* (near *Inula viscosa*): 1 ♂ dry (probably arrived from *Inula viscosa*).
- Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - 17-VIII-57 - (Along the stream North-East of the village) - H.P. *Inula viscosa* (along the paths in the sunny vineyards): ♂ ♂ ♀ ♀ (3 ♀ ♀ dry).
- Typhl. 172 - TUSCANY - Porto S. Stefano (Orbetello) (GR) - 1-IX-57 - H.P. *Inula viscosa* - Presence of few adults: 2 ♀ ♀ dry.
- Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - (Sorrento) - 8-IX-57 - H.P. *Inula viscosa*: 3 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - H.P. *Inula viscosa*: presence of very few adults and of some nymphs.
- Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - H.P. *Inula viscosa*: 1 ♂ 3 ♀ ♀ dry.
- Typhl. 324 - SARDINIA - Platamona (SS) - (Area of the marshy zone in front of the building of the Forestry Corps) - 11-VIII-61 - H.P. *Inula viscosa*: 2 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 335 - SARDINIA - Cala Gonone - Dorgali (NU) - 15-VIII-61 - H.P. *Inula viscosa*: 3 ♂ ♂ 2 ♀ ♀ dry - (1 ♂ 1 ♀ to Linnavuori, September 1961).
- Typhl. 374 - SARDINIA - Assemini and Elmas (CA) - 19-X-61 - H.P. *Inula viscosa*: 4 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. *Inula viscosa*: 1 ♂ 1 ♀ dry.
- Typhl. 394 - SICILY - Monreale (PA) - 18-IV-62 - H.P. *Inula viscosa*: 1 ♀.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corraisi), near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Inula viscosa* - (m 1,000, slope of Oliena): 3 ♂ ♂ 1 ♀ dry.
- Typhl. 406 - SARDINIA - Caprera (SS) - 13-VIII-62 - H.P. *Inula viscosa*: ! 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 410 - SARDINIA - Arzachena (OT) - (Porto Apulia, near Porto Cervo, in the locality Lisciavacca) - 15-VIII-62 - H.P. *Inula viscosa*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 422 bis - LIGURIA - Mortola (IM) - (Curve before the bridge S. Luigi) - 15-IX-62 - H.P. *Inula viscosa*: 3 ♂ ♂ 8 ♀ ♀ dry - H.P. *Pulicaria disenterica* - (*Satureja* and *Mentha*): 2 ♀ ♀ not prepared.
- Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Inula viscosa*: 1 ♂ 2 ♀ ♀ dry.
- Typhl. 437 - TUSCANY - Elba Island - Capoliveri (LI) - (Locality 4 Km far from the village - on the left of the road leading to the iron mine, between Mount Calamita and Pareti) - 21-IX-62 - H.P. *Inula viscosa*: 6 ♂ ♂ 2 ♀ ♀ dry (N.B.: present on *Inula viscosa* everywhere on the Elba Island).
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - 23-IX-63 - H.P. *Inula viscosa*: ♂ ♂ ♀ ♀ not prepared.

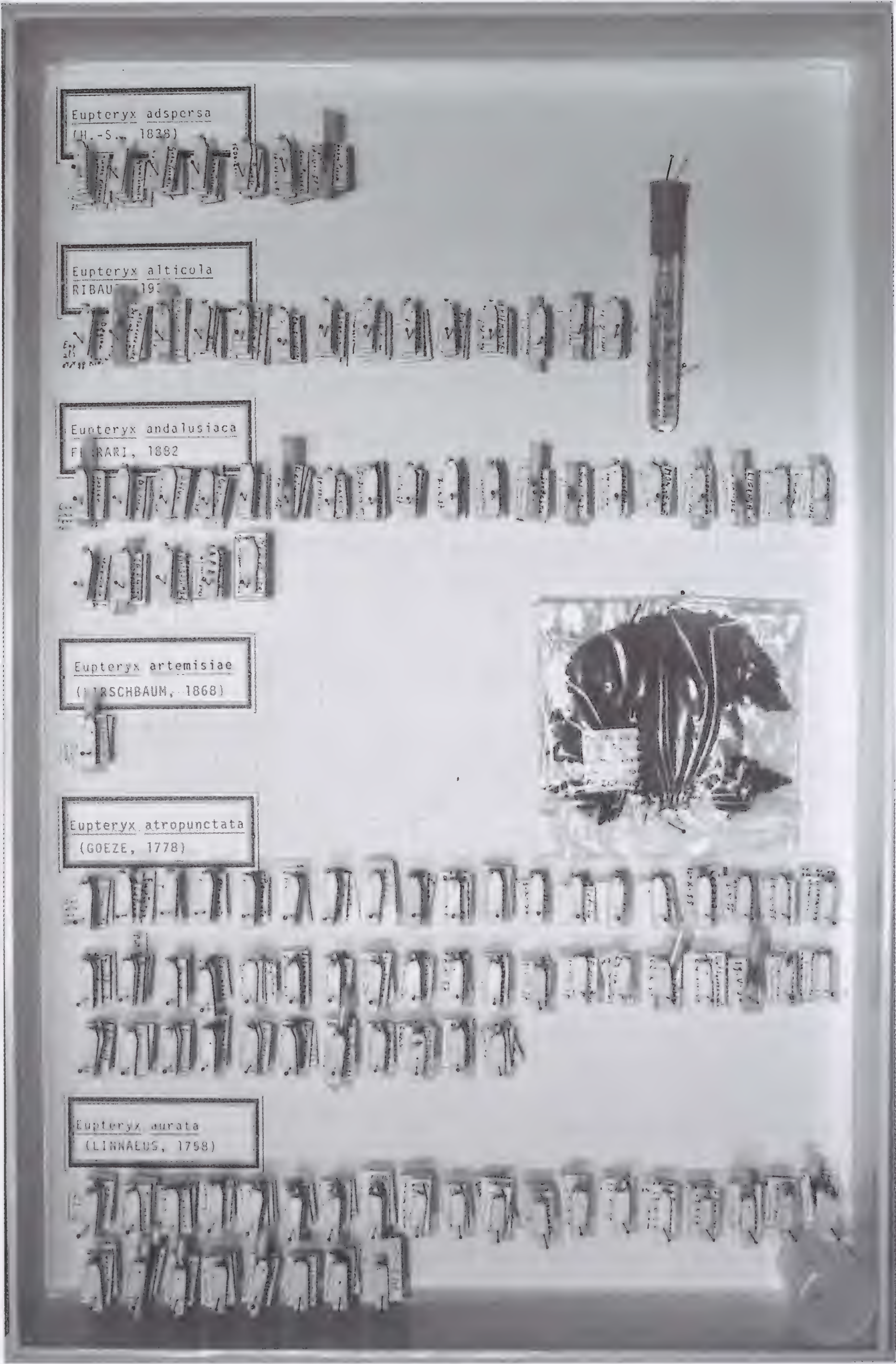


Fig. 14 - Box no. 34 - *Eupteryx* spp.

- Typhl. 504 - LIGURIA - (Cfr. Typhl. 423, 541) - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - m 600 - ("Belvedere") - 6-VIII-64 - H.P. *Inula viscosa*: 4 ♀ ♀ dry.
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Inula viscosa*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 578 - LATIUM - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter reference no. 1,102 of 25-VI-74 - Ponza, Scoglio La Ravia - 17-VI-66: 1 ♂.
- Typhl. 799 - SICILY - Augusta (SR) - (Along the road Siracusa-Augusta; concrete canal inside the fence built for the industries) - 2-VIII-85 - h 18 - H.P. *Inula viscosa*: 2 ♂ ♂ 1 ♀ dry.
- Typhl. 807 - SICILY - Salemi (TP) - (Gully with ditches and water: tall *Populus nigra*, *Arundo donax*) - m 442 - 4-VIII-85 - H.P. *Inula viscosa*: 1 ♂ 10 ♀ ♀ dry (not found *E. sicula* n.sp.).
- Typhl. 887 - LIGURIA - Imperia - (Capo Mimosa) - 6-XI-86 - H.P. *Inula viscosa* (young plants and still green, under eucalypti): 2 ♂ ♂ 2 ♀ ♀ dry.

EUPTERYX artemisiae (Kirschbaum, 1868)

- Typhl. 586 - OLANDA - Wageningen - (dr Cobben's home) - 25-VIII-78 - H.P. *Artemisia abrotanum*: !!! 4 ♂ ♂ 3 ♀ ♀ dry + nymphs (plastic tube).

EUPTERYX atropunctata (Goeze, 1778)

- Typhl. 4 - PIEDMONT - Caluso (TO) - 16-X-55 - (Ditch between Plazio and Salvetti's properties) - I collected on a single shoot of *Mentha rotundifolia*: 2 individuals prepared dry.
- Typhl. 35 - PIEDMONT - Forno Alpi Graie (TO) - (Fountain next to the stream Stura and small bridge on the Stura) - 28-IX-56 - H.P. *Urtica dioica*: 2 ♀ ♀ dry.
- Typhl. 41 - PIEDMONT - Susa (TO) - (road to Ulzio) - 3-X-56 - (in a sunny but very humid place) - H.P. irrigated polyphyte meadow in which *Salvia pratensis* is abundant (with Gramineae): 4 ♀ ♀ dry.
- Typhl. 48 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Mentha aquatica*: 2 ♂ ♂ dry.
- Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Verbena hybrida*: 1 ♂ 2 ♀ ♀ dry - H.P. *Lamium* sp: 2 ♂ ♂ dry.
- Typhl. 59 - PIEDMONT - Caluso (TO) - (Ditch between Gnavi and Candia's properties) - 20-X-56 - H.P. *Mentha aquatica*: 3 ♂ ♂ 1 ♀ dry.
- Typhl. 87 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field, along the Canal) - 5-V-57 - H.P. *Mentha aquatica* (ditch of the road Briamara): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 97 - PIEDMONT - Bussoleno-S. Giorio (TO) - (Cfr. Typhl. 102) - 23-V-57 - H.P. *Verbascum* sp.: presence of many individuals (on 9-V-57 there were none) several of which mating - Of both species (*Dikraneura mollicula*, editor's note) there are still 4th and 5th instar nymphs on the lower page of *Verbascum* leaves - I collected 18 individuals of which: 6 ♂ ♂ (5 in alcohol), 12 ♀ ♀ (11 in alcohol). Phot. 3,940: ♂; 3,941: ♀ - All dry.

- Typhl. 99 - PIEDMONT - Susa (TO) - (road of Cesana) - 24-V-57 - H.P. *Thalictrum foetidum alpestre* (from a polyphyte meadow with Gramineae etc.): 1 ♀ dry.
- Typhl. 101 - PIEDMONT - Caluso (TO) - (Plazio's field) - 24-V-57 - H.P. *Mentha aquatica*: presence of several ♂♂ ♀♀ adults - H.P. potato (Vidano's field): 2♂♂ 10♀♀ not prepared.
- Typhl. 114 - PIEDMONT - Carignano-Salsasio (TO) - (On the left of the road Carignano-Carmagnola - near the bridge on the Po) - 21-VI-57 - H.P. *Cannabis sativa*: presence of several individuals. Of the 20 collected ones there are 1♂ 19♀♀ (1♂ 3♀♀ dry) - var *impunctata* Cerutti: 1♀ dry. Presence of juveniles of all instars, usually 1-2 per leaf; rarely 3-4. After 5 days the first adults were reared: of 15, 8♂♂ 7♀♀. It is obvious that the collected adults (almost all ♀♀) were mostly of the previous generation. Phot. 4,077: 5th instar ♀ nymph; phot. 4,078: 5th instar ♂ nymph - (In alcohol with just emerged adults and other juveniles).
- Typhl. 123 - PIEDMONT - Caluso (TO) - (Vidano's vegetable garden) - 4-VII-57 - H.P. *Salvia officinalis*: ♂♂ ♀♀ not prepared.
- Typhl. 125 - PIEDMONT - Exilles-Salabertano (TO) - 5-VII-57 - m 1,000 - H.P. potato: 1♂ 2♀♀ dry.
- Typhl. 131 - PIEDMONT - Pialpetta (TO) - (Valle di Forno Alpi Graie) - m 1,000 - 10-VII-57 - (Cfr. Typhl. 154) - H.P. potato - Presence even in Forno Alpi Graie of ♂♂ ♀♀ in great numbers: 2♂♂ 2♀♀ dry.
- Typhl. 132 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - (Cfr. Typhl. 153) - 10-VII-57 - H.P. *Cannabis sativa*: presence of neanids, nymphs and adults of the second generation - 1♂ 1♀ dry - The nymphs (above all the 3rd instar ones) are easily recognizable from the *E. aurata* ones (that are uniformly yellowish white) by the infumate areas on pronotum, mesonotum and at the base of the metathoracic wing pads.
- Typhl. 134 - PIEDMONT - Pessinetto (TO) - (Lanzo valleys) - 10-VII-57 - H.P. *Mentha longifolia* (along a canal): presence of juveniles of all instars and ♂♂ ♀♀ adults - 2♂♂ 2♀♀ dry.
- Typhl. 150 - PIEDMONT - Caluso (TO) - (Vidano's home) - 28-VII-57 - H.P. potato - Forma typica: 1♂ 4♀♀ dry; var *marginata* Cerutti: 1♂ dry.
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 192): 2♂♂ dry.
- Typhl. 152 - PIEDMONT - Bruschi (TO) - (Cantoira) - (Forno Alpi Graie) - 1-VIII-57 - H.P. potato: presence of many ♂♂ ♀♀, several of which parasitized by *Aphelopus*, not prepared - H.P. *Cannabis sativa* (close to harvest): many adults (♂♂ ♀♀), parasitized by *Aphelopus*, and several 4th and 5th instar nymphs.
- Typhl. 153 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - H.P. potato: ♂♂ ♀♀ some of which parasitized (not prepared) - H.P. *Cannabis sativa* (cfr. Typhl. 132): presence of ♂♂ ♀♀.
- Typhl. 154 - PIEDMONT - Pialpetta (TO) - (Forno Alpi Graie Valley) - 1-VIII-57 - (cfr. Typhl. 131) - H.P. potato: presence of ♂♂ ♀♀ adults not prepared.
- Typhl. 155 - PIEDMONT - Forno Alpi Graie (TO) - 1-VIII-57 - H.P. *Cannabis sativa*: few individuals, 2♀♀ dry - No *Empoasca* - H.P. potato: few individuals: 1♀ dry.
- Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. polyphyte mead-

ow: many adults (80% ♀ ♀) not prepared.

Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Artemisia vulgaris*: 1 ♂ not prepared.

Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the canal) - 28-IX-57 - H.P. *Centaurea vochinensis* (basal leaves): presence of nymphs on the lower page of well depigmented leaves - 6-X-57; reared adults: 1 ♀ dry.

Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Chrysanthemum balsamita* (costmary): 4 ♂ ♂ 2 ♀ ♀ not prepared - H.P. *Artemisia vulgaris* (basal leaves): some ♂ ♂ ♀ ♀ adults not prepared - H.P. *Malva sylvestris* (basal leaves): some adults: 2 ♂ ♂ 1 ♀ dry - H.P. *Chrysanthemum (Tanacetum vulgare)* basal leaves: 2 ♂ ♂ 1 ♀ not prepared.

Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - 10-X-57 - H.P. *Lamium maculatum*, *Galeopsis praecox*, *Malva crispa*: several adults, 2 ♂ ♂ 4 ♀ ♀ dry. N.B.: the appendages of the aedeagus are like in *E. notata*, but all the other characters correspond.

Typhl. 234 - PIEDMONT - Caluso (TO) - 19-V-58 - H.P. *Solanum tuberosum*: 3 ♂ ♂ 6 ♀ ♀ in a plastic tube.

Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - H.P. *Solanum tuberosum*: 1 ♂ 2 ♀ ♀ not prepared.

Typhl. 243 - PIEDMONT - Caluso (TO) - 31-V-58 - H.P. *Salvia officinalis*: 4 ♂ ♂ 1 ♀ not prepared.

Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. hemp: 3 ♂ ♂ 6 ♀ ♀ not prepared + several 5th instar nymphs.

Typhl. 256 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Valsavarenche) - 24-VII-58 - H.P. potato: 1 ♂ dry.

Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Solanum melongena* (depigmented leaves): 2 ♂ ♂ 2 ♀ ♀ not prepared.

Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Phaseolus*: some plants appear affected by viruses (depigmented leaves): 3 ♂ ♂ 8 ♀ ♀ not prepared - H.P. *Beta vulgaris* (fodder): 1 ♂ 2 ♀ ♀.

Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Mentha longifolia*: 10 ♂ ♂ 2 ♀ ♀ in a plastic tube. The apex of the genital processes of the aedeagus is directed towards the distal end of the aedeagus.

Drawing.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Eaux Rousses (AO) - (Valsavarenche) - m 1,694 - 12-IX-59 - H.P. *Heracleum sphondylium*: 2 ♂ ♂ 2 ♀ ♀ not prepared - Degioz (AO) - m 1,541 - H.P. *Mentha longifolia*!! (tomentose): 2 ♂ ♂ 2 ♀ ♀ not prepared - H.P. *Mentha rotundifolia*: ♂ ♂ ♀ ♀ not prepared - Chevrère (AO) - m 1,120 - Locality between Ruinaux and Fénille - H.P. *Anthriscus* sp., *Chaerophyllum hirsutum*, *Heracleum sphondylium* and meadow herbs: 12 ♂ ♂ 15 ♀ ♀ not prepared.

Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Campolongo (Caronno Varesino, VA) - H.P. pear: 1 ♂.

Typhl. 305 - PIEDMONT - Lanzo (TO) - (road to Corio, near the crossroad to Coassolo) - 31-V-61 - H.P. *Solanum tuberosum*: several ♀ ♀ not prepared.

- Typhl. 345 - AOSTA VALLEY - Gran Paradiso National Park - Eaux Rousses (AO) - (Valsavarenche) - 19-IX-61 - H.P. *Urtica dioica*: ! 1♂ not prepared.
- Typhl. 346 - PIEDMONT - Caluso (TO) - (Briamara) - Hedge along the Canal, near Scapino's orchard - 23-IX-61 - H.P. *Artemisia vulgaris*: ! 3♂♂ 1♀ dry.
- Typhl. 347 - PIEDMONT - Orco Valley - Locana (TO) - m 613 - 27-IX-61 - H.P. *Mentha longifolia* (tall with very tomentose leaves, ashy): ! 4♀♀ not prepared.
- Typhl. 348 - PIEDMONT - Valprato Soana (TO) - m 1,113 - 27-IX-61 - H.P. *Urtica dioica*: ! 4♂♂ 1♀ not prepared - H.P. *Mentha* sp. (tall with tomentose leaves, ashy): 3♂♂ 2♀♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m tall, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Salvia pratensis*: 1♂ not prepared.
- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Mentha aquatica*: 2♂♂ 4♀♀ not prepared.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Salvia officinalis*: 1♀ not prepared.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste - Noghera - 3-X-61 - (Old saltworks between Trieste and Muggia) - Day of strong Bora wind! - H.P. *Artemisia vulgaris*: 1♂ 1♀ dry together (with *Kyboasca vittata* and on *Artemisia annua*, editor's note).
- Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, a little before the town, on the left of the road coming from Ceva) - 14-IX-62 - H.P. *Chrysanthemum* (*Tanacetum*) *vulgare*: 1♂ 1♀ not prepared.
- Typhl. 458 - PIEDMONT - Novara - (Bridge of the motorway-road to Momo) - 3-VI-63 - H.P. *Lappa major*: 4♀♀ not prepared.
- Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (Park of the Institute) - 11-VII-64 - H.P. *Urtica dioica*: 1♂ dry.
- Typhl. 505 - LIGURIA - Bardineto (SV) - m 700 - 6-VIII-64 - H.P. *Angelica* sp., *Centaurea* sp. (in polyphyte meadow): 4♀♀ dry.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826 !to check) - H.P. *Mentha*, *Glechoma*, *Lycopus*, *Stachys*, *Centaurea* sp.: 3♀♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Lamium maculatum*: 1♀ dry.
- Typhl. 527 - JUGOSLAVIJA - Obravac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Urtica dioica*, *Mentha rotundifolia*, *Melissa* spp., *Marrubium*, *Ballota nigra*: 1♂ 1♀ dry.
- Typhl. 566 - JUGOSLAVIJA - Kutina (Hrvatska, 70 Km from Zagreb) - Locality 12-15 Km from Kutina at the height of m 250 approx. Along villages and country roads. Very humid environment - 1-IX-66 - H.P. *Mentha longifolia*: 2♂♂ dry.
- Typhl. 594 - PIEDMONT - Roddino (CN) - m 610 - 31-VIII-80 - H.P. *Mentha rotundifolia*: 1♀ not prepared.

- Typhl. 607 - PIEDMONT - Val Grande di Lanzo - 21-VI-81 - Forno Alpi Graie (TO) - (m 1,219) - H.P. *Solanum tuberosum*: 1♂ 4♀ ♀ dry - No *Empoasca* like Typhl. 131, 153 and 154 - Pialpetta (TO) - (m 1,069) - H.P. *Solanum tuberosum*: 2♀ ♀ not prepared - Breno (Chialamberto) (TO) - m 950 - H.P. *Phaseolus vulgaris* (same biotope): 3♀ ♀ not prepared.
- Typhl. 608 - PIEDMONT - Pragelato (TO) - (Souchères Basses) - m 1,450 - 5-VII-81 - H.P. *Solanum tuberosum*: ♀ ♀ not prepared - Fenestrelle (TO) - m 1,151 - H.P. *Solanum tuberosum*: ♀ ♀ not prepared.
- Typhl. 609 - PIEDMONT - Fenestrelle (TO) - Mentoulles - m 1,071 - 5-VII-81 - H.P. *Solanum tuberosum*: 1♂ 3♀ ♀ not prepared.
- Typhl. 609 bis - PIEDMONT - Castel del Bosco (Roreto) (TO) - m 800 - 5-VIII-81 - H.P. *Solanum tuberosum*: 3♀ ♀ not prepared.
- Typhl. 622 - PIEDMONT - Salbertrand (TO) - m 1,000 - 21-VIII-81 - (Windy day) - H.P. *Solanum tuberosum* - Presence of many adults and nymphs. Depigmented leaves. Many adults are dryinidized. I collected casually 12 adults: 6♂♂ + 6♀♀ dry (3♂♂ 3♀♀ are dryinidized).
- Typhl. 625 - PIEDMONT - Noasca-Ceresole Reale (TO) - m 1,400 - 23-VIII-81 - H.P. *Solanum tuberosum* (locality frequented by the nomadist beekeeper Ferrero of Cavagnolo): 2♀ ♀ dry - Presence of nymphs and depigmented leaves. Dryinidized adults.
- Typhl. 628 - PIEDMONT - Groscavallo (TO) - m 1,100 - (The townhall is in hamlet Pialpetta, m 1,069) - 30-VIII-81 - H.P. *Solanum tuberosum* - (Cfr. Typhl. 607): 23♂♂ 26♀♀ (12♂♂ 11♀♀ dryinidized) - Also adults with hypopi.
- Typhl. 643 - PIEDMONT - Villar Perosa (TO) - m 800 - 18-VII-82 - H.P. *Vitis vinifera*, *Solanum tuberosum*: 6♂♂ 6♀♀ not prepared.
- Typhl. 726 bis - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 24-VI-82: 1♀ - 10-VIII-83: 4♀♀.
- Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - (Slope of the cableways, along the road) - m 1,400 - m 1,500, marshy clearing, near beechwood - H.P. *Mentha ?longifolia* (tomentose): 2♂♂ 3♀♀ dry (processes of the aedeagus like those of *E. falculata*, according to Ribaut 1936) - H.P. *Carum carvi* (caraway): 1♂ 1♀ dry.
- Typhl. 742 - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 20-VIII-84: 1♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 13-VII-83: 1♀.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Rovasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Palanfrè (CN) - 31-VII-81: 1♀.
- Typhl. 920 - AOSTA VALLEY - Morgez (AO) - Lavancher - m 1,000 - 30-VI-88 - (Det. dr Alma) - H.P. *Solanum tuberosum* (near vineyard): 2♀♀.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Galeopsis pubescens* (shaded hedge, under wild hazelnuts): 1♂ 4♀♀ not prepared.
- Typhl. 966 - ABRUZZO - Chieti - 28-VII-88 - H.P. *Adenostyles glabra* (in understorey, beechwood): 3♂♂ 12♀♀ in alcohol - Leg. Masutti.

EUPTERYX aurata (Linnaeus, 1758)

- Typhl. 12 - PIEDMONT - Caluso (TO) - 16-X-56 - H.P. *Stachys sylvatica*, *Lamium maculatum* (along the Canal, in a shady place): !!! 1 ♀ mm 4.0 long - dry.
- Typhl. 79 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field) - 30-III-57 - H.P. *Lamium maculatum*: !newly hatched neanids (during the survey of 21-IV-57 there were already 5th instar nymphs).
- Typhl. 87 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field, along the Canal) - 5-V-57 - H.P. *Lamium maculatum*, *Stachys sylvatica* - 23 individuals: 9 ♂ ♂ 14 ♀ ♀ (5 ♂ ♂ 8 ♀ ♀ dry), (4 ♂ ♂ 6 ♀ ♀ in alcohol). Phot. 3,859: ♂; 3,860: ♀ - On the lower page of the host plants there are still some 3rd, 4th, 5th instar nymphs of the first generation.
- Typhl. 128 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field) - 6-VII-57 - H.P. *Lamium maculatum* - 9 adults: 5 ♂ ♂ (4 in alcohol, 1 phot. 3,133), 4 ♀ ♀ in alcohol.
- Typhl. 135 - PIEDMONT - Germagnano (Lanzo) (TO) - 10-VII-57 - H.P. *Lamium maculatum*: presence of many ♂ ♂ ♀ ♀ adults and juveniles of all instars - 2 ♂ ♂ 1 ♀ dry - *Lamium* leaves very depigmented (with diffused spots and with stripes beside the main vein).
- Typhl. 138 - PIEDMONT - Caluso (TO) - (Hedge of the Canal-Tululena's field) - (Cfr. Typhl. 128) - 13-VII-57 - H.P. *Lamium maculatum*: 3 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Cannabis sativa* - (Cfr. Typhl. 192): ! 1 ♂ dry.
- Typhl. 160 - PIEDMONT - Caluso (TO) - (Tululena's field-hedge of the Canal) - 10-VI-II-57 - H.P. *Lamium maculatum* - (several adults) - var *nova* (without the 2 anterior spots of the pronotum): 1 ♀ dry.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. *Lamium maculatum*: 1 ♂ dry.
- Typhl. 200 - PIEDMONT - Barone Canavese (TO) - (Humid ditch along Bianco Pietro's field) - 28-IX-57 - H.P. *Glechoma hederacea*, *Ranunculus* sp., *Spiraea ulmaria*: 1 ♂ 2 ♀ ♀ dry.
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal and Tululena's field) - 26-X-57 - H.P. *Lamium maculatum*: 1 ♂ 1 ♀ not prepared.
- Typhl. 228 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - m 800 - (Delpiano's house) - H.P. *Lamium maculatum*: 1 ♀ dry - H.P. *Urtica dioica*: 1 ♀ dry.
- Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Lamium maculatum*: 1 ♂ not prepared.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - m 1,120 - 12-IX-59 - (Locality between Ruinaux and Fénille) - H.P. *Anthriscus* sp., *Chaerophyllum hirsutum*, *Heracleum sphondylium* and meadow herbs: 2 ♂ ♂ 1 ♀ not prepared.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Introd (AO) - (Valsavarenche) - m 888 - 15-IX-59 - H.P. *Mentha longifolia* - var *nigerrima* Cerutti: !! 1 ♀ dry + 2 ♀ ♀ of the forma typica not prepared.
- Typhl. 313 - PIEDMONT - Dam of Mélezet (TO) - (Dora Riparia Valley) - (Above Bar-

- donecchia) - 16-VI-61 - H.P. *Urtica dioica* - (Cfr. Typhl. 315 and 343): ? 1 ♂ (genitalia and head) dry (just emerged), 3 ♀ ♀ dry - Presence of many nymphs. I need more specimens for a correct classification (adults and above all nymphs were collected certainly on nettles, but near the nettles there were *Chaerophyllum* plants).
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica (CS) - (Near the lake Arvo) - Mazzei Giuseppe's house (Bandit Grimoli) - m 1,400 - 8/9-VII-61 - H.P. *Lappa major* (and *Cirsium arvense*): !!! 4 ♂ ♂ 13 ♀ ♀ dry - (Cfr. Typhl. 313 and 343).
- Typhl. 344 - AOSTA VALLEY - Gran Paradiso National Park - between Cané and Proussaz (AO) - (Rhêmes Valley) - m 1,550~ - 19-IX-61 - H.P. *Heracleum sphondylium* - !(umbellifer): 5 ♂ ♂ 19 ♀ ♀ dry - Processes of the aedeagus like in *E. ornata*, but processes of the pygofer lobes like in *E. aurata* and *atropunctata* - remarkable colour changes in head, pronotum and elytra, for the parasitization by dryinids and pipunculids (cfr. Typhl. 313 and 315) - phot. 9,261: ♂, length 3.5 mm; 9,262: ♀, length 3.8 mm (♀ phot. maybe parasitized by a pipunculid).
- Typhl. 346 - PIEDMONT - Caluso (TO) - (Briamara) - Hedge along the Canal, near Scapino's orchard) - 23-IX-61 - H.P. *Lamium maculatum*: ! 1 ♀ dry and neanids and nymphs on the lower page of depigmented leaves.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Lamium maculatum*: 3 ♀ ♀ dry.
- Typhl. 418 - LIGURIA - Rezzo (IM) - Ponte dei Passi - m 744 - 14-IX-62 - H.P. ?*Arctium lappa* v *majus* (**drawing** of a leaf): 7 ♂ ♂ 6 ♀ ♀ dry - (Processes of the pygofer lobes of an unusual shape. Narrow axis of the aedeagus - unusual - **Drawings** of the forebody) - **Drawing** of the pygofer lobe - H.P. *Mentha longifolia*, *M. rotundifolia* (in a stream): ! 1 ♂ 1 ♀ not prepared (as the individuals collected on *Arctium lappa* mentioned above).
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Lamium maculatum*: 1 ♀ dry.
- Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000 circa - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Lappa* ?*major* and *Urtica dioica*: 4 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - H.P. *Lamium purpureum* - (or ?*album*): 1 ♀ dry.
- Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,500 - Marshy clearing near beechwood - H.P. *Mentha* ?*longifolia* (tomentose) - (or *heydenii*): 1 ♂ 4 ♀ ♀ dry.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Palanfrè (CN) - (m 1,000, in a meadow) - 31-VII-81: 2 ♀ ♀ - Monte Madonna delle Finestre - 5-VIII-81: 1 ♀.

EUPTERIX austriaca (Metcalf, 1968)

Typhl. 721 - SWITZERLAND - Schatzalp-Davos, GR, CH - m 1,800 - 29-VIII-84 - H.P. *Knautia* and *Chaerophyllum* - Polyphyte meadow (with *Thymus serpyllum*) - (?equals *binotata* Lethierry): 1 ♀.

EUPTERYX calcarata Ossiannilsson, 1936

Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Parietaria judaica* (according to Dalla Fior), diffused (according to Marchesetti) - ?*urticae* or *calcarata*: 2 ♀ ♀ dry.

Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Urtica dioica* (humid environment, ridge, stream shaded, at the entrance of the Bear's cave): !!! 4♂♂ 2 ♀ ♀ dry.

Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - Close to the tunnel of Quassolo - 13-X-61 - H.P. *Parietaria officinalis* (I collected by night) - ?*urticae* or *calcarata*: 4 ♀ ♀ dry.

EUPTERYX collina (Flor, 1861)

Typhl. 130 - PIEDMONT - Forno Alpi Graie (TO) - 10-VII-57 - H.P. *Satureja* ?*calamintha* - (as *alticola* Ribaut): 1 ♀ dry (classified on the grounds of the colour of hind tarsi and of the shape of the spots on the temples).

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavarenche) - m 1,541 - 12-IX-59 - (as *alticola* Ribaut) - H.P. *Mentha longifolia* (!!tomentose): 2♂♂ 2 ♀ ♀ dry - H.P. *Mentha rotundifolia*: 2♂♂ 3 ♀ ♀ in a plastic tube.

Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Introd (AO) - (Valsavarenche) - m 888 - 15-IX-59 - H.P. *Mentha longifolia* - (as *alticola* Ribaut): ♂♂ ♀ ♀ in a plastic tube (there are neanids and nymphs too).

Typhl. 402 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 5-VIII-62 - (Leg. Sampò and Couvert) - H.P. *Nepeeta nepetella* - (as *alticola* Ribaut): ! 3♂♂ dry - (Presence in the same biotope also of *Thymus*, *Mentha* and *Satureja*).

Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Satureja acinos* or ?*alpina* (leg. Meotto) - (as *alticola* Ribaut): 1 ♂ 1 ♀ dry.

Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Mentha longifolia* v *mollissima* - (as *alticola* Ribaut): ? 4 ♀ ♀ dry.

Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate cableway station to Campo Imperatore) - m 1,600 ~ - 27-VIII-64 - H.P. *Teucrium montanum* (among Gramineae and *Carex*) - (as *alticola* Ribaut): 1 ♂ 1 ♀ dry.

Typhl. 538 - PIEDMONT - Valle Stura - Vinadio (CN) - road of the sanctuary of St. Anne

- m 1,200-1,300 - 29-X-64 - H.P. *Mentha longifolia* (?v *sordida* or *canescens*) (sheltered by rocks) - Very depigmented leaves - (as *alticola* Ribaut): 5♂♂ 2♀♀ dry (presence of only nymphs; all reared specimens have emerged) - 1♂ emerged on 2-XI; prepared on 5-XI-64: abnormal aedeagus (immature specimen) - 1♂ emerged on 4-XI; 1♂ 1♀ emerged on 6-XI; 2♂♂ 2♀♀ emerged on 9/15-XI - **Drawings** of the aedeagus in different positions and of the head.

Typhl. 542 - AOSTA VALLEY - Champorcher (AO) - m 1,500 ~ - 15-VIII-66 - H.P. *Satureja alpina* (along the path and the escarpment) - (as *alticola* Ribaut): 8♂♂ 1♀ dry - 3♂♂ 3♀♀ + nymphs in alcohol.

Typhl. 548 - LOMBARDY - Val Camonica - Ponte di Legno-Passo del Tonale (BS) - (6th curve-m 1,550) - 21-VIII-66 - Mixed broadleaf and conifer wood - H.P. *Satureja alpina* - (as *alticola* Ribaut): ♂♂ ♀♀ not prepared.

Typhl. 550 - TRENTO-ALTO ADIGE - Passo del Tonale-Val Vermiglio - m 1,550 - 21-VIII-66 - Mixed broadleaf and conifer wood-humid - H.P. *Satureja acinos* (and *Thymus serpyllum*) - (as *alticola* Ribaut): 2♂♂ 5♀♀ + nymphs dry.

Typhl. 586 - OLANDA - Wageningen - (dr Cobben's home) - 25-VIII-78 - H.P. *Satureja ?nepetoides* (preserved the sample!): 2♂♂ 2♀♀ + 1♂ 3♀♀ dry inidized dry, plastic tube.

Typhl. 633 bis - PIEDMONT - Roasenda (VC) - m 220 - Baraggia - 17-IX-81 - H.P. *Mentha ?aquatica* - (?as *alticola* Ribaut): 4♀♀ dry.

Typhl. 742 - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - EMILIA-ROMAGNA - Casola Valsenio (RA) - 13-VII-83: (*alticola*?): 1♀.

EUPTERYX corsica Lethierry, 1876

Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Urtica dioica* (near rocks, in a small stream, sunny): !!! 1♂ 8♀♀ dry. Phot. 9,163: 2♀♀ (length of the bigger ♀ 2.9 mm) (the ♂ was not yet known!!) - ♂ allotypus (Conci, Mem. Soc. Ent. 36(2), 1957, page 163 - ♂ with the frons black, except 2 small brownish yellow areas at the level of the antennae. Genital blades yellowish (brownish only proximally), pygofer lobes blackish brown. Abdomen black with the single urites bordered distally with yellow - (Cfr. Typhl. 336) - Affinity with *E. cyclops* - Check the styli! - Male genitalia dry with the ♂ - **Drawings** of the aedeagus.

Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small fountain - 16-VIII-61 - H.P. *Urtica dioica*: !!! 3♂♂ 2♀♀ dry. Phot. 9,363 bis: ♀, length mm 3.0; 9,364: ♂, length mm 2.7 - Length: ♂♂ mm 2.5-3.0; ♀♀ mm 2.8-3.2 - (Cfr. Typhl. 333).

Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Urtica dioica*: 2♀♀ dry.

Typhl. 411 - SARDINIA - Tempio Pausania (OT) - (Fonti di Rinaggiu) - 15-VIII-62 - H.P. *Urtica dioica*: 1♂ dry.

Typhl. 489 - SARDINIA - Mount Corrasi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Gera-*

nium lucidum, !*Lamium garganicum corsicum*!! (in pseudofoiba): 7♂♂ 2♀♀ dry.
 Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Urtica dioica*: 1♂ 4♀♀ dry - Arcu Tascussi (mount Gennargentu) - m 1,250 - road Desulo-Fonni (NU), m 1,000 - Small humid valleys, with tall *Ilex aquifolium* - H.P. *Urtica dioica*: 9♂♂ 19♀♀ dry, 4♂♂ 5♀♀ in alcohol.

EUPTERYX cyclops Matsumura, 1906

- Typhl. 35 - PIEDMONT - Forno Alpi Graie (TO) - (Fountain next to the stream Stura and the small bridge on the Stura) - 28-IX-56 - H.P. *Urtica dioica*: presence of several adults on nettles close to a fountain next to the stream Stura. I collected in the same environment also 1 adult of *Erythridea ferrarii* Puton. I collected 8 adults of which: 4 forma typica, 2 var *trilobata* Ribaut, 2 var *mendax* Ribaut - Species very similar to *E. urticae* - I see among the constant distinctive characters the presence of two small black spots on the scutum, spots that are missing in *E. urticae*. Ribaut draws them but does not mention them.
- Typhl. 130 - PIEDMONT - Forno Alpi Graie (TO) - 10-VII-57 - H.P. *Urtica dioica*: 5th instar nymphs, from which on 13-VII-57 the ♂ adult was reared - Nymphal exuvium and adult dry - The 5th instar nymph, differently from the corresponding one of *Eupteryx urticae* that is stocky and completely black, is basically whitish, with dorsally two blackish transverse areas involving the whole pronotum, metanotum, a small area of the mesothoracic wing pads proximally near the inner margin, and the base of the metathoracic wing pads.
- Typhl. 155 - PIEDMONT - Forno Alpi Graie (TO) - 1-VIII-57 - (Cfr. Typhl. 35) - H.P. nettles - 16 adults of which: 1♂ 15♀♀ - var *trilobata* Ribaut: 1♂ in alcohol; var *mendax* Ribaut: 15♀♀ (7 dry, 8 in alcohol) - phot. 4,253: ♀ var *mendax*.
- Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Urtica dioica* - Forma typica: 2♂♂ dry, 8♀♀ (3 dry, 5 in alcohol); var *nigrifrons* Haupt: 4♂♂ (2 dry, 2 in alcohol); var *trilobata* Ribaut: 12♂♂ (5 dry, 7 in alcohol); var *mendax* Ribaut (top of the face without black patches): 7♀♀ (4 dry, 3 in alcohol) - !!!var *bipunctata* nova: 12♀♀ (5 dry, 7 in alcohol), 1♂ (parasitized by *Aphelopus*) dry - Top of the face with 2 black spots like in *E. urticae* forma typica.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Urtica dioica* - var *mendax* Ribaut: 1♂ 4♀♀; var *trilobata*: 2♂♂ (all dry).
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Ceresole Reale (TO) - (Orco Valley) - 9-IX-59 - H.P. *Urtica dioica*: ! 3♂♂ var *nigrifrons* Haupt; 2♀♀ forma typica dry.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Pont (AO) - (Valsavarenche) - 12-IX-59 - m 1,972 - H.P. *Urtica dioica*: 2♂♂ 6♀♀ (var *nigrifrons* the ♂♂, forma typica the ♀♀) not prepared - Eaux Rousses (AO) - (m 1,694) - H.P. *Urtica dioica*: 1♂ 2♀♀ forma typica; 6♂♂ var *nigrifrons*; 2♂♂ 3♀♀ var *trilobata*; 8♀♀ var *mendax* - Degioz (AO) - (m 1,541) - H.P. *Urtica dioica*: many ♂♂♀♀ not prepared.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO)

- (Rhêmes Valley) - m 1,725 - 13-IX-59 - H.P. *Urtica dioica* and *Urtica urens*: 2♂♂ 10♀♀ not prepared.

Typhl. 313 - PIEDMONT - Dam of Mélezet (TO) - (Above Bardonecchia) - (Dora Riparia Valley) - 6-VI-61 - H.P. *Urtica dioica* (presence of nymphs and adults): 6♂♂ 1♀ dry.

Typhl. 345 - AOSTA VALLEY - Gran Paradiso National Park - Pont (AO) - (Valsavarenche) - 19-IX-61 - H.P. *Urtica dioica* - (m 1,972): 13♂♂ 14♀♀ dry - Eaux Rousses (AO): 8♂♂ 3♀♀ not prepared.

Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park - Valle di Piantonetto (TO) - height m 1,450 - (Cableway station and Don Salvetti's apiary) - 27-IX-61 - H.P. *Urtica dioica* (cableway building, very dry environment): 1♂ 14♀♀ dry.

Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Urtica dioica* (near hut): 12♂♂ 1♀ dry.

Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2,200 ~ (Close to the hotel) - 16-VIII-64 - H.P. *Urtica dioica*: 2♂♂ 2♀♀ dry.

Typhl. 518 - ABRUZZO - Gran Sasso (AQ) - Campo Imperatore; (slope East of the Astronomic Observatory) - m 2,200 ~ - 26-VIII-84 - H.P. *Lamium garganicum*, *Urtica dioica*: (luxuriant vegetation - waste water drain of the hotel): 1♂ 10♀♀ dry.

Typhl. 538 - PIEDMONT - Valle Stura - Vinadio (CN) - (road of the sanctuary of St. Anne) - m 1,200-1,300 - 29-X-64 - H.P. *Urtica dioica*: 3♂♂ 2♀♀ dry (presence of several 4th and 5th instar nymphs too).

Typhl. 547 - LOMBARDY - Val Camonica - Ponte di Legno-Passo del Tonale (BS) - (6th curve-m 1,550) - 21-VIII-66 - Mixed broadleaf and conifer wood - H.P. *Urtica dioica*: 1♂ dry.

Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000 approx. - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Urtica dioica*: 6♂♂ 2♀♀ dry (3♂♂ parasitized by *Aphelopus*).

Typhl. 569 - PIEDMONT - Colle del Moncenisio (TO) - m 2,084 - 21-IX-66 - Karstic zone, with foibas and small dolinas, between the road and the lake - H.P. *Urtica dioica*: 5♂♂ 10♀♀ dry.

Typhl. 589 - PIEDMONT - Colle del Moncenisio (TO) - 10-IX-78 - H.P. *Urtica dioica*: 2♂♂ dry.

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Urtica dioica*: 3♂♂ 1♀ dry.

Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - m 1,500 - Marshy clearing, near beechwood - H.P. *Urtica dioica*: 1♂ dry.

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Valcasotto (CN) - 3-VIII-81 (beechwood): 1♂ 1♀ - Le Boréon - (Maritime Alps) - 6-VIII-81: 1♂.

EUPTERYX decemnotata Rey, 1891

- Typhl. 4 - PIEDMONT - Caluso (TO) - 16-X-55 - (Ditch between Plazio and Salvetti's properties) - I collected on a single shoot of *Mentha rotundifolia*: 1♂ var *litterata* Ribaut, 1♀ var *Lombardi* Melichar dry.
- Typhl. 92 - PIEDMONT - Caluso (TO) - (Salvetti Carlo) - 12-V-57 - H.P. *Rosmarinus officinalis*: 9♂♂ 16♀♀ of which: forma typica 4♂♂ (1 phot. 3,911, 3 in alcohol), 6♀♀ (5 in alcohol); var *Lombardi* Melichar: 3♂♂ (1 in alcohol), 2♀♀; var *turbatrix* Ribaut: 4♀♀ (1 in alcohol); var *litterata* Ribaut: 1♀ in alcohol; var *trochlearis*: 2♂♂ (1 in alcohol) 1♀ (phot. 3,911); var *Salvettii* nova: 2♀♀ (as *trochlearis*, but with the spots fused in a U).
- Typhl. 98 - (Cfr. Typhl. 92) - PIEDMONT - Caluso (TO) - (Salvetti Carlo's house) - 23-V-57 - H.P. *Rosmarinus officinalis*: presence of plenty adults and young individuals of the different instars. Above all 1st and 2nd instar neanids of the new generation are abundant (2nd one, after the one that hatched from overwintering eggs); of which however there are already 1st and 2nd instar nymphs. Very few 3rd instar nymphs (last instar) that should belong to the previous generation. Egg-layings are made mostly at the beginning of the young leaf vein, but they are already or nearly completely developed. But eggs are laid along the whole vein, in the leaf stalk and in tender twigs. Egg-layings can be recognized by the very small ferrugineous spot produced in correspondance with the hole. The embryonic exuvium remains trapped in it. Some eggs are parasitized by a mymarid (?*Anagrus*) that emerges producing a small round hole with a jagged margin (1 ?*Anagrus* in alcohol) - *Nabis* sp.: adult with short hemielytra collected while it was sucking a nymph. While reared, it emptied 7 adult leafhoppers in 18 h, piercing each of them in 2-3 points (between the urosterni, between head and pronotum, etc.) prepared dry. Phot. 3,949-3,950: hatched neanids - phot. 3,951: 2nd instar neanids and 1st and 2nd instar nymphs, with exuviae, on the lower leaf page of rosemary. Lengths: 1st instar neanid mm 0.60-0.70; 2nd instar neanid mm 0.85-0.95; 1st instar nymph mm 1.10-1.30; 2nd instar nymph mm 1.5-1.7; 3rd instar nymph mm 2.0-2.5 - In alcohol juveniles of the different instars. Phot. 3,952: tegmen and wing of a ♀ (forma typica) prepared in a glass slide - 18 adult individuals of which 8♂♂ 10♀♀: forma typica 5♂♂ 9♀♀ in alcohol, var *turbatrix* Ribaut: 1♀; var *litterata* Ribaut: 3♂♂ dry.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - Gargano - (Near the convent) - m 600 - 5-VI-57 - H.P. *Rosmarinus officinalis* - Big wild bushes, along a slope: 2♂♂ 2♀♀ forma typica dry - Weak infestation and almost limited to the leaves of basal twigs - H.P. *Mentha longifolia* v *viridis* (pension Longo): Forma typica 5♂♂ 1♀ dry; var *litterata*: 1♂ dry; var *Salvettii*: 1♂ dry (cfr. Typhl. 92) - H.P. *Salvia officinalis* (pension Longo): 31 individuals, of which 14♂♂: 7 forma typica (plastic tube); 2 var *turbatrix*, 4 var *litterata*, 1 var *trochlearis* dry - 17♀♀: 15 forma typica (plastic tube), 1 var *turbatrix*, 1 var *ambigua* nova dry. Joint characters of var *Lombardii* Melichar and var *turbatrix* Ribaut, i.e.: hind spots fused in a U; fore and middle spots fused together 2 by 2 (**drawing**). Presence of juveniles of all instars - leaves with dechlorophyllated areas - *E. zelleri* missing, that is present instead on very close *Mentha* plants. 2♂♂ 2♀♀ to Linnavuori, September 1961.

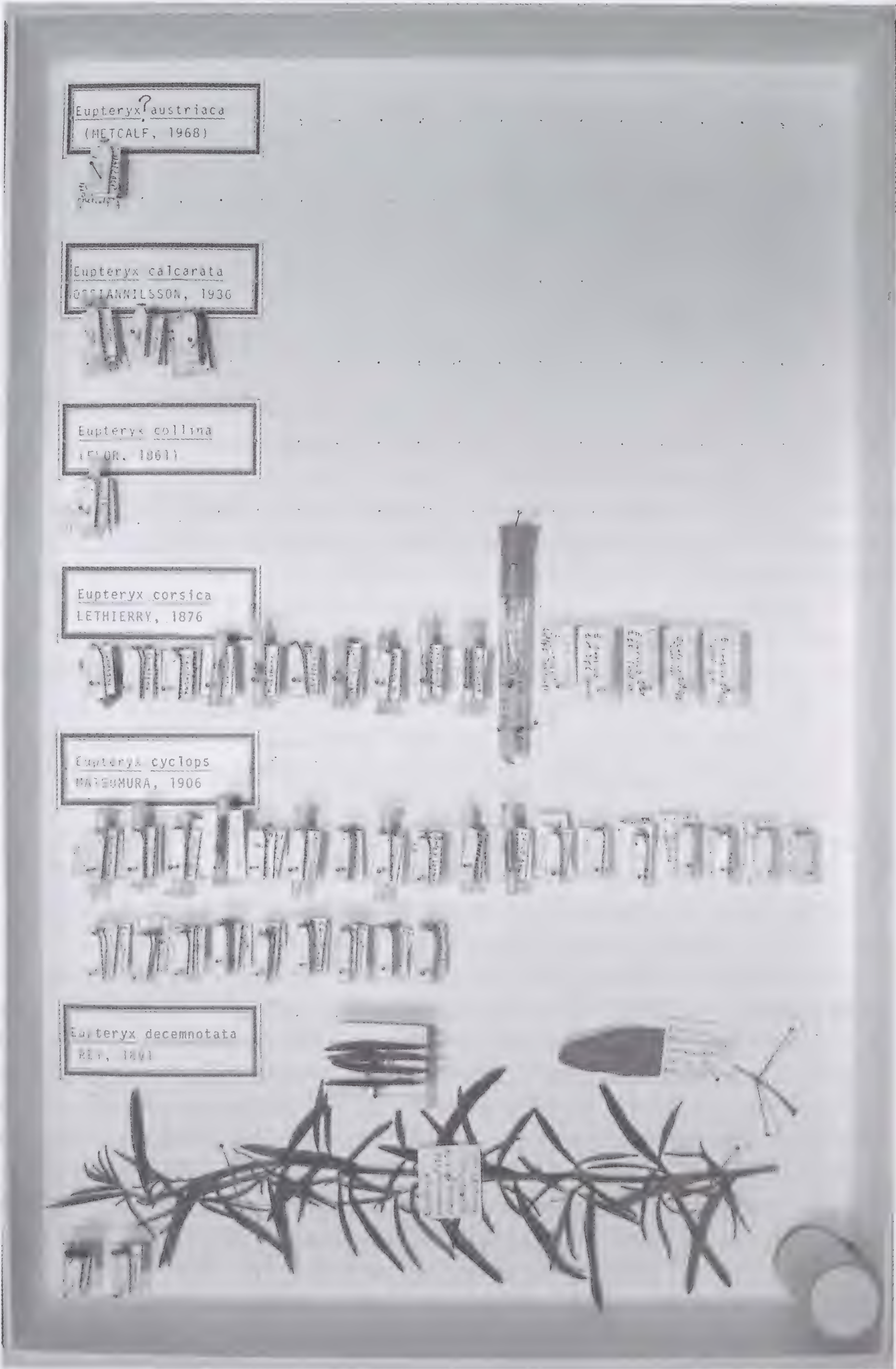


Fig. 15 - Box no. 35 - *Eupteryx* spp.

- Typhl. 110 - PIEDMONT - Caluso (TO) - (Salvetti's house) - 8-VI-57 - (Cfr. Typhl. 92 and 98) - H.P. *Rosmarinus officinalis*: presence of several adults and juveniles of all instars, and eggs. These are laid in leaf veins and tender apical twigs. The egg-laying wound is always proximal; this means that the ♀ lays staying with the head directed towards the base of the leaves or of the twigs (**drawing**) - phot. 4,027: egg in apical twig; phot. 4,028: egg in leaf vein. In the twigs the egg is laid generally in correspondence with one of the 4 edges, while in the veins it is laid a little laterally.
- Typhl. 123 - PIEDMONT - Caluso (TO) - (Vidano's vegetable garden) - 4-VII-57 - H.P. *Salvia officinalis*: ♂♂ ♀♀ + juveniles not prepared - (Salvetti's vegetable garden) ♂♂ ♀♀ + juveniles not prepared.
- Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Salvia officinalis*: 1♂ 9♀♀ not prepared.
- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (Bed of the stream Deiva) - 16-VIII-57 - H.P. *Mentha rotundifolia*: presence of ♂♂ ♀♀ adults - Very depigmented leaves - 2♂♂ 1♀ dry.
- Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - (Along the stream North-East of the village) - 17-VIII-57 - H.P. *Satureja calamintha* v *vulgaris*: some adults not prepared.
- Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Mentha sylvestris*: ♂♂ ♀♀ not prepared.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - H.P. *Mentha longifolia*, *Satureja calamintha* v *vulgaris*: ♂♂ ♀♀ not prepared.
- Typhl. 220 - PIEDMONT - Caluso (TO) - 12-X-57 - H.P. *Rosmarinus officinalis* (Salvetti's house) - Juveniles of all instars and adults: I collected 2♂♂ 11♀♀ in a plastic tube.
- Typhl. 222 - PIEDMONT - Pino Torinese (TO) - (Park of a villa) - 14-X-57 - H.P. *Salvia officinalis*: 2♂♂ 1♀ dry - H.P. rosemary: 1♂ 1♀ dry.
- Typhl. 225 - PIEDMONT - Caluso (TO) - (Vidano's vegetable garden) - 19-X-57 - H.P. rosemary: presence of adults and juveniles of all instars and of a mymarid in alcohol - phot. 4,433-4,434: rosemary twig with depigmented leaves; 4,435-4,436: ♀ lateral and dorsal - Plant exposed westwards not far from a wall, in a very airy environment, with normal green, turgid and upright leaves, poorly or not at all depigmented. Plants exposed southwards, against a wall, protected both from rain and winds, withered by the very strong infestation of the typhlocybines. No leaf is safe; the most attacked ones are proximal and median, that, besides being strongly dechlorophyllated, are more or less procumbent and have the upper page full of the insects' excrements on which abundant sooty moulds have developed. Several exuvia (above all of nymphs) are fixed on the lower page of such leaves, but there are very few juveniles of the leafhopper, that are instead many on the lower page of apical leaves. The lower page of the attacked leaves is not much different from that of healthy ones. At the most it is a little lighter and there are some excrements (no sooty moulds!), some egg-laying scars in the middle vein and in the leaf stalk, and of course juveniles (the adults generally fly away as soon as they are disturbed) and leafhopper exuviae.
- Typhl. 229 - PIEDMONT - Caluso (TO) - (Vidano's vegetable garden) - 5-I-58 - H.P. rosemary - There are several adults and juveniles of all instars on plants sheltered by a

small wall exposed southwards and by bundles of maize stalks on the sides. They have disappeared since mid November on other plants, until now saved from frost, but doomed to die in winter, unless they are protected from low temperatures like the previous ones.

- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Salvia officinalis*: 3♂♂ 1♀ not prepared.
- Typhl. 327 - SARDINIA - S. Gregorio (CA) - 12-VIII-61 - (Stream with little water along the road to Muravera) - H.P. *Satureja calamintha* v *nepeta*! (Labiatae): 6♀♀ dry - (1 parasitized by a dryinid).
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Satureja vulgaris*: 2♂♂ 1♀ dry.
- Typhl. 335 - SARDINIA - Cala Gonone - Dorgali (NU) - 15-VIII-61 - H.P. *Rosmarinus officinalis* (in a very arid area) - Presently it does not host typhlocybrids. It could be visited in different seasons by this species, that lives now on *Satureja* spp.
- Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small fountain - 16-VIII-61 - H.P. *Satureja calamintha* (glandulose stipules ?Ceruti): 3♂♂ dry.
- Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - Close to the tunnel of Quassolo - 13-X-61 - H.P. *Rosmarinus officinalis* (against a rocky wall exposed southwards, next to a plant of *Mespilus japonica*) - I collected by night: 1♀ dry.
- Typhl. 372 - SARDINIA - Muravera (CA) - 18-X-61 - H.P. *Rosmarinus officinalis* (in the hotel of the village): 1♂ dry - Very depigmented leaves, but without adults, because of the very strong wind - H.P. *Satureja calamintha* v *nepeta*: 1♂ not prepared.
- Typhl. 377 - SARDINIA - Iglesias (CI) - (Halfway between Iglesias and Domusnovas) - 19-X-61 - H.P. *Satureja calamintha* v ..., *Lycopus europaeus*: 2♀♀ dry.
- Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Salvia officinalis*: 1♂ dry - H.P. *Rosmarinus officinalis*: 1♂ 1♀ + 1♀ predator Nabidae all dry.
- Typhl. 389 - SICILY - Palermo - (Botanical gardens) - 17-IV-62 - H.P. *Meriandra bengalensis* (Labiatae) (similar to *Salvia officinalis*): 5♂♂ 6♀♀ dry.
- Typhl. 393 - SICILY - Godrano-Ventimiglia (PA) - 17-IV-62 - H.P. *Rosmarinus officinalis* (thick bushes on the very airy hill ridge): 1♂ 1♀ not prepared.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Mentha pulegium*!, *Mentha aquatica*! (det. Ariello): 2♂♂ 4♀♀ not prepared.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi), near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Stachys arvensis* (lilac pink flowers) - Det. Ariello, by comparison - Eastern slope of Mount Corrasi - m 1,400: 2♂♂ 3♀♀ dry (in this area there is a lot of rosemary, both on the slope of Oliena, in the big karstic plain, that however does not seem to be visited, just minimally, by *E. decemnotata*).
- Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena-bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Satureja calamintha* v *glandulosa*: 2♀♀ not prepared.

- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 - 14-VIII-62 - H.P. *Thymus serpyllum* v *herba-barona* (det. Ariello by comparison!) (very depigmented leaves, tufts sheltered by big rocks), m 1,300: 3♂♂ 1♀ dry.
- Typhl. 410 - SARDINIA - Arzachena (OT) - (Porto Apulia, near Porto Cervo, in the locality Lisciavacca) - 15-VIII-62 - H.P. *Mentha rotundifolia* (det. Ariello by comparison): 1♂ 1♀ dry.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Rosmarinus officinalis*: 3♂♂ 4♀♀ not prepared (very depigmented leaves).
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Rosmarinus officinalis* (strong plants with not depigmented leaves and so not infested by the usual *E. decemnotata* Rey).
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *Mentha rotundifolia* (in the stream): 1♂ dry - (Coming, maybe, from nearby *Thymus vulgaris* plants, with depigmented leaves, on which however I did not find any leafhoppers).
- Typhl. 419 - LIGURIA - Passo di Tegli (IM) - m 1,000 ~ - (Some kilometres before the pass, arriving from Rezzo) - 14-IX-62 - H.P. *Thymus vulgaris*: 1♂ dry.
- Typhl. 420 - LIGURIA - Passo di Tegli (IM) - m 1,387 - 14-IX-62 - H.P. *Teucrium chamaedrys*, *Thymus vulgaris*: 2♂♂ 1♀ dry.
- Typhl. 422 bis - LIGURIA - Mortola (IM) - (Curves before the bridge of S. Luigi) - 15-IX-62 - H.P. *Pulicaria disenterica* (*Satureja* and *Mentha*): 1♀ dry.
- Typhl. 422 ter - LIGURIA - Mortola (IM) - (Villa Hambury) - 15-IX-62 - H.P. *Rosmarinus officinalis*: 8♂♂ 10♀♀ dry (abundant also in the stages of neanids and nymphs, but only on leafy and shaded plants) - Very depigmented leaves - H.P. *Salvia officinalis*: !♂♂♀♀ + juveniles not prepared - H.P. *Lavandula dentata* (name on the tag): 2♂♂ 2♀♀ not prepared.
- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - (Cfr. Typhl. 504) - H.P. *Thymus vulgaris*: 3♀♀ dry + juveniles!! (depigmented leaves).
- Typhl. 424 - LIGURIA - Giogo di Toirano (SV) - m 800 ~ - 16-IX-62 - H.P. *Mentha longifolia*: ! 1♀ not prepared + nymphs.
- Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI) - 20-IX-62 - (gully, near Ponti) - H.P. *Mentha rotundifolia*, *M. aquatica*, *Satureja calamintha* v *nepeta*: ♂♂♀♀ not prepared - (Cfr. Typhl. 433).
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Mentha rotundifolia*, *Satureja calamintha* v *nepeta*: 2♂♂ dry (1♂ parasitized by *Aphelopus*).
- Typhl. 431 - TUSCANY - Elba Island - Rio nell'Elba (LI) - 21-IX-62 - H.P. *Rosmarinus officinalis*; vast area exposed to the sun, up and downstream of the road leading from Rio nell'Elba to Cavo, covered almost only by rosemary. The leaves depigmented (actually very few) by the oligophagous *E. decemnotata* can be seen almost only in plants sheltered by rocks and escarpments.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Mentha ro-*

tundifolia, *Satureja calamintha* v *nepeta*: 1 ♂ dry.

Typhl. 436 - TUSCANY - Elba Island - Pareti (LI) - (Beach of Capoliveri) - 21-IX-62 - H.P. *Satureja calamintha* v *nepeta*: 1 ♂ dry.

Typhl. 441 - SARDINIA - Campu Omu (on the right of the road Cagliari-Muravera, close to the crossroad to Burcei) - Fluminimaggiore (CA) - m 5 - 7-X-62 - (In the stream bed) - H.P. *Mentha rotundifolia*: ! 1 ♂ 2 ♀ ♀ not prepared - (1 ♀ parasitized by *Aphelopus*).

Typhl. 450 - SARDINIA - Sestu (CA) - 27/30-XII-62 - (Leg. Dr Melis, in vegetable gardens) - H.P. *Salvia officinalis*: 5 ♂ ♂ 6 ♀ ♀ + nymphs.

Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge of the road Sassari-Alghero) - 27-V-64 - H.P. *Melissa officinalis* (ditch North of the *Rubus* hedge): 1 ♂ 1 ♀ not prepared.

Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Lavandula stoechas*: 5 ♂ ♂ 19 ♀ ♀ dry (adults and juveniles!).

Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Stachys glutinosa*: 4 ♀ ♀ dry - H.P. *Teucrium flavum* v *glaucum* - (Sardinia and Corsica): 4 ♂ ♂ 7 ♀ ♀ dry.

Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - 31-V-64 - H.P. *Teucrium messiliense*, *Marrubium vulgare*, *Mentha pulegium* (sparse tufts in the plain beneath the slope where there is *T. s.* v *herbarona*), *Thymus serpyllum* v *ovatus* (high escarpment downstream of the road, northwards) (aromatic Labiatae): 2 ♂ ♂ 16 ♀ ♀ dry.

Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Mentha rotundifolia* v *insularis* (South, Corsica, Sicily): ! 1 ♂ 4 ♀ ♀ not prepared.

Typhl. 493 - SARDINIA - Sassari - 1-VI-64 - (Gardens of the square Conte Moriana) - H.P. *Thymus vulgaris* (heavy infestation!): 1 ♂ 2 ♀ ♀ dry (very depigmented leaves!) - (Cfr. Typhl. 504).

Typhl. 504 - (Cfr. Typhl. 423 and 541) - LIGURIA - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - m 600 - ("Belvedere") - 6-VIII-64 - H.P. *Thymus vulgaris* (this species is scarce in this period, but the leaves of the host plant are very depigmented) - (Cfr. Typhl. 493).

Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - H.P. *Rosmarinus officinalis*: 3 ♂ ♂ 5 ♀ ♀ dry (present only on plants with a rich vegetation, in the shadow and sheltered from the wind).

Typhl. 592 - PIEDMONT - Bibiana (TO) - m 410 - 29-VIII-80 - Park of the Castle (Marquise Cattaneo) - m 410 - H.P. *Rosmarinus officinalis*: 10 ♂ ♂ 8 ♀ ♀ dry.

Typhl. 594 - PIEDMONT - Roddino (CN) - m 610 - 31-VIII-80 - H.P. *Mentha rotundifolia*: 1 ♂ 1 ♀ dry.

Typhl. 726 bis - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 10-VIII-83: 2 ♂ ♂ 2 ♀ ♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 27-VII-84: 1 ♀ ; 1 ♂ 1 ♀ ; 1 ♂ 1 ♀ .

Typhl. 737 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - (Slope of the cableways, along the road) - m 1,500, marshy clearing, near beechwood - H.P. *Mentha ?longifolia* (tomentose): 4 ♂ ♂ 5 ♀ ♀ dry (plus neanids and nymphs!!!).

- Typhl. 742 - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 20-VIII-84: 3♂♂ 3♀♀ - 10-VIII-83: 1♂ 3♀♀ - 8-VII-84: 3♂♂ 3♀♀ - 17-V-82: 2♀♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 13-IX-84: 2♂♂ 7♀♀; 2♂♂ 4♀♀; 3♂♂ 2♀♀; 1♀ - 13-VII-83: 1♀ - 13-VII-83: 2♂♂ 3♀♀; 4♂♂ 6♀♀ - FRIULI-VENEZIA GIULIA - Codroipo (UD) - 15-V-83: 2♀♀; 1♀.
- Typhl. 859 - VENETIA - Maserada sul Piave (TV) - 24-IX-86 - Farm Tonini (leg. Arzone, Alma, Arnò) - H.P. *Salvia officinalis* (in a vegetable garden): 5♂♂ 9♀♀ not prepared + nymphs + *Anagrus* sp.
- Typhl. 860 - FRIULI-VENEZIA GIULIA - Udine - 25-IX-86 - Leg. Arzone, Alma, Arnò - H.P. *Salvia officinalis*: 6♂♂ 9♀♀ not prepared (1♂ dryinidized, 3♀♀ pipunculidized). See joint sheets.
- Typhl. 865 - FRIULI-VENEZIA GIULIA - Prepotto (UD) - (Hamlet Albana) - 25-IX-86 - H.P. *Salvia officinalis*: 1♂ 4♀♀ dry.
- Typhl. 873 - PIEDMONT - Grugliasco (TO) - (Leg. Rolfo) - 29-IX-86 - H.P. *Salvia officinalis*: 3♀♀ not prepared.

EUPTERYX falculata Ribaut, 1936

Typhl.? - phot. ?♀ 9,260.

EUPTERYX filicum (Newman, 1853)

- Typhl. 155 - PIEDMONT - Forno Alpi Graie (TO) - 1-VIII-57 - H.P. *Polypodium vulgare*: 6♂♂ 6♀♀ dry, some ♂♂♀♀ in alcohol, 3 5th instar nymphs and several 5th instar exuviae in alcohol, 9♂♂ 8♀♀ in a plastic tube - Length: ♂♂ mm 3.25-4.00; ♀♀ mm 3.50-4.20 - Presence of ♂♂♀♀ almost in the same number (a little more ♀♀). Several last instar nymphs that are turning to adults in these days. Leaves of the host plant heavily depigmented. Dechlorophyllated spots visible on the upper and lower leaf page, and in transparency - Eggs in the main veins - phot. 4,257: ♀ dorsal; 4,258: egg; 4,259: last instar nymph; 4,260-4,261: leaves with dechlorophyllated areas; 4,262: ♂♀ in copula (in alcohol, isolated); 4.263: tegmen and wing of a ♀.
- Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - 17-VI-II-57 - H.P. *Pteris aquilina* (Halfway of the crossroad Deiva-Baracca) - Several adults and nymphs: 2♂♂ 2♀♀ dry.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavarenche) - m 1,541 - 12-IX-59 - H.P. *Polypodium vulgare*: ♀♀ and some ♂♂.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - m 1,200 ~ - 15-IX-59 - H.P. *Polypodium vulgare*: ♂♂♀♀ not prepared.
- Typhl. 320 - SICILY - Catania - Mount Etna - (Roadman's house) - m 1,800-1,900 - 10-VII-61 - H.P. *Pteris aquilina*: !! 3♂♂ 2♀♀ dry.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Polystichum filix-mas*: 1♂ 1♀ dry.

- Typhl. 346 bis - PIEDMONT - Gran Paradiso National Park - Valle di Piantonetto (TO) - m 1,450 - (Cableway station and Don Salvetti's apiary) - 27-IX-61 - H.P. *Polypodium vulgare* and *Pteris* or *Filix*: 1 ♀ dry.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Nephrodium filix-mas* (understorey), *Aglosurus ?crispus*, *Polypodium vulgare* (base of big decayed *Castanea* stumps): 4♂♂ 27♀♀ dry.
- Typhl. 391 - SICILY - Palermo - (Bosco della Ficuzza) - m 1,000-1,200 - 17-IV-62 - H.P. *Polypodium vulgare* (depigmented leaves): nymphs.
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - 14-VIII-62 - m 1,300 - H.P. *Pteris aquilina* (det. Ariello by comparison) - ! (1,350 m, in the shadow of big rocks): 7♂♂ 7♀♀ dry + juveniles.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, shaded understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. *Polystichum filix-mas*: ! ♂♂ ♀♀ not prepared.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 approx., 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Polystichum filix-mas*: 3♂♂ 2♀♀ dry.
- Typhl. 473 - PIEDMONT - Alpinia (Stresa) (VB) - (Cfr. Typhl. 458) - 17-IX-63 - H.P. *Pteris filix-mas*: ♂♂ ♀♀ not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. ♂ fern: ♂♂ ♀♀ not prepared.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - 28-V-64 - (South of the hotel Mirafiori) - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea*, *Q. ilex* (bushes) - (Wind!): 1♂ 3♀♀ not prepared - m 750 - (Understorey of *Q. ilex*) - H.P. *Polystichum filix-mas*: 2♂♂ 5♀♀ dry.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Scolopendrium officinarum*, *Asplenium trichomanes*, *Polystichum filix-mas* v *glandulosa*! - Many adults: 3♂♂ 3♀♀ dry.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - (Arcu Guddetorgiu) - m 1,150 ~ (Fountain) - 31-V-64 - H.P. *Polystichum filix-mas*: ♂♂ ♀♀ not prepared.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - (*Quercus ?pubescens*) - H.P. *Polystichum filix-mas*: ♂♂ ♀♀ not prepared.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - m 1,000 - Slope of Garesio - H.P. *Castanea sativa* (low part of the canopy, along the road): 1♂ dry (seen *Pteris aquilina* closely).
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Mount Manfrè (CT) - 9-VI-78; 1-VIII-78; 22-VIII-78 (pasture); 29-VIII-78 (chestnut wood); 12-X-78: 1♂ 19♀♀.

EUPTERYX genestieri Meusnier, 1982

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Valcasotto (CN) - 3-VIII-81 (beechwood): 1 ♂.

EUPTERYX heydenii (Kirschbaum, 1868)

Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 13-IX-59 - H.P. *Nepeta nepetella* - !!! (as *Ornata* Lethierry): 5 ♀ ♀ dry (cfr. Typhl. 402 and 343).

Typhl. 343 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 19-IX-61 - H.P. *Nepeta nepetella* (as *Ornata* Ribaut): 27 ♀ ♀ dry - Black abdomen! - phot. 9,260: ♀, length 3.75 mm - (Cfr. Typhl. 287 and 402).

Typhl. 402 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 5-VIII-62 - (Leg. Sampò and Couvert) - H.P. *Nepeta nepetella* - (as *Ornata* Lethierry): 8 ♂ ♂ 40 ♀ ♀ dry (several ♂ ♂ ♀ ♀ parasitized by *Aphelopus*) - (Cfr. Typhl. 287 and 343).

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Valle Pesio (CN) - 1-VIII-81 (understorey chestnut wood): 1 ♂ - Monte Madonna delle Finestre (m 1,904) - (Maritime Alps) - 5-VIII-81: 1 ♂.

EUPTERYX immaculatifrons (Kirschbaum, 1868)

Typhl. 128 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field) - 6-VII-57 - H.P. *Lamium maculatum*: !!! 3 ♀ ♀ forma typica dry; var *immaculatifrons* Cerutti!: 1 ♂ dry (Cfr. Typhl. 138).

Typhl. 138 - PIEDMONT - Caluso (TO) - (Hedge of the Canal - Tululena's field) - 13-VII-57 - H.P. *Lamium maculatum*: ! 3 ♂ ♂ in alcohol, ! 4 ♀ ♀ (1 dry, 3 in alcohol) - (Cfr. Typhl. 128).

Typhl. 160 - PIEDMONT - Caluso (TO) - (Tululena's field - hedge of the Canal) - 10-VIII-57 - H.P. *Lamium maculatum* - Forma typica and var *colligata* Cerutti: 4 ♂ ♂ 4 ♀ ♀ in alcohol (2 ♂ ♂ 1 ♀ dry, to Dlabola).

Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. *Lamium maculatum* - Forma typica 2 ♀ ♀ dry, var *colligata* Cerutti: 2 ♂ ♂ 4 ♀ ♀ dry - phot. 4,370: ♀; 4,371: ♀ wings.

Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Lamium maculatum*: 1 ♂ not prepared.

EUPTERYX melissae Curtis, 1837

Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - 8-IX-57 - H.P. *Daucus ca-*

rota v *gingidium* (= *Daucus maritimus*) - Isolated plants, at the base of the rocks, not in a too sunny environment. Radical leaves very depigmented - Presence of adults and many juveniles of all instars, but in particular neanids. Eggs laid in the fleshy leaf stalks and in the main veins. Egg-layings almost invisible, from which neanids continue hatching and grow regularly feeding on the leaves preserved in the glass tubes (Turin 14-IX-57) - I collected 20 adults of which: 8♂♂ (2 dry, 6 in alcohol), 12♀♀ (5 dry, 7 in alcohol) - in alcohol juveniles of all instars - phot. 4,348: ♀ dorsal.

Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Chrysanthemum (Tanacetum) vulgare* (basal leaves): ? 1♀ dry.

Typhl. 329 - SARDINIA - Oristano - (Wasteland, 6 Km from the town, on the right of the road to Cagliari) - 13-VIII-61 - H.P. *Althaea officinalis* (Malvaceae): 10♂♂ 15♀♀ dry.

Typhl. 332 - SARDINIA - Arborea (OR) - (Thicket near the vegetable gardens close to the canal of the drainage district) - 13-VIII-61 - H.P. *Althaea officinalis* (Malvaceae): ♂♂♀♀ (many specimens dry).

Typhl. 358 - FRIULI-VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Althaea officinalis*: 1♂ dry.

Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Marrubium vulgare* and *Pulicaria disenterica*: 1♂ dry.

Typhl. 372 - SARDINIA - Muravera (CA) - 18-X-61 - H.P. *Althaea officinalis*: 1♂ dry.

Typhl. 374 - SARDINIA - Assemini and Elmas (CA) - 19-X-61 - H.P. *Althaea officinalis*: 1♀ dry.

Typhl. 382 - SICILY - Passo Zingaro (CT) - m 650 - mount Etna (after Adrano) - 12-IV-62 - H.P. *Urtica rupestris* - (as *Eupteryx* sp.): 1♀ not prepared.

Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. *Phlomis fruticosa*! (Labiatae: like *Salvia*) (yellow flowers): 10♂♂ 3♀♀ dry. Phot. 9,742: ♂, length 2.9 mm; 9,743: ♀, length 3.3 mm (2♂♂ parasitized by *Aphelopus*) - H.P. *Mentha rotundifolia*, *M. longifolia* (hollows with water stagnation!): 1♂ 1♀ dry.

Typhl. 393 - SICILY - Godrano-Ventimiglia (PA) - 17-IV-62 - H.P. *Althaea officinalis* (big isolated bush on the roadside): 1♂ 2♀♀ not prepared.

Typhl. 409 - SARDINIA - Arzachena (OT) - m 80 - 15-VIII-62 - H.P. *Althaea officinalis*: 2♂♂ 3♀♀ not prepared.

Typhl. 422 ter - LIGURIA - (Mortola - Villa Hambury) (IM) - 15-IX-62 - H.P. *Lavandula dentata*! (name on the tag): 1♂ dry.

Typhl. 487 - SARDINIA - Rio-Mannu (SS) - (Bridge on the road Sassari-Alghero) - 27-V-64 - H.P. *Melissa officinalis* (ditch North of the *Rubus* hedge): 1♂ 2♀♀ (dryinidized) not prepared.

Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Wind!): 1♀ not prepared.

- Typhl. 527 - JUGOSLAVIJA - Obravac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Urtica dioica*, *Mentha rotundifolia*, *Melissa* spp., *Marrubium*, *Ballota nigra*: 2♂♂ 2♀♀ dry.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town (*Quercus ?pubescens*) - H.P. *Pulicaria disenterica*: 1♂ 3♀♀ dry.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 18-VII-77: 1♂ - 13-VI-77: 1♂ - Ossi (SS) - 14-IV-76: 1♂.
- Typhl. 800 - SICILY - Augusta (SR) - Bridge near river...(between river Cantera and river Mulinello: fenced) - 2-VIII-85 - h 18,30-20 - H.P. *Mentha rotundifolia* and *M. longifolia*: 1♂ 3♀♀ dry.

EUPTERYX notata Curtis, 1837

- Typhl. 152 - PIEDMONT - Bruschi (Cantoira) (TO) - (Forno Alpi Graie) - 1-VIII-57 - H.P. polyphyte meadow - *Crepis virens*, *Centaurea rotundifolia* (*vochinensis*), *Prunella vulgaris*, *Chrysanthemum leucanthemum*, *Ranunculus acer*: 9♂♂ (3 dry, 6 in alcohol), 28♀♀ (6 dry, 22 in alcohol) - 2♂♂ parasitized by *Aphelopus*, in alcohol - phot. 4,246: ♀ dorsal - Several ♂♂♀♀ are parasitized by young Thrombididae.
- Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. polyphyte meadow: ♂♂♀♀ - 1♀ dry.
- Typhl. 218 - PIEDMONT - Cantoira (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Chrysanthemum leucanthemum*, *Ajuga reptans* (basal leaves: obvious depigmentation) - Presence of several adults that, if disturbed, immediately hide in the grass felt! (very lucifugous): 1♀ dry.
- Typhl. 222 - PIEDMONT - Pino Torinese (TO) - (Park of a villa) - 14-X-57 - H.P. meadow, *Ajuga reptans*, *Prunella vulgaris*, *Chrysanthemum leucanthemum*, *Salvia pratensis*: 3♂♂ 1♀ dry.
- Typhl. 240 - PIEDMONT - Pra Martino - m 1,000 - Villar Perosa (TO) - 21-V-58 - H.P. *Hieracium* sp. (plantlets) - N.B.: the vegetation is much behind compared with that of the plains. Seen 2 adults.
- Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. various low herbaceous plants in an arid site: 1♂ dry.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Degioz (AO) - (Valsavarenche) - m 1,541 - 12-IX-59 - H.P. *Leontodon hispidus*!, *Chrysanthemum leucanthemum* (basal leaves), *Plantago media*: ♂♂♀♀.
- Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Bizzozzero (VA) - H.P. apple tree (but not alive on the apple tree): 1♀.
- Typhl. 313 - PIEDMONT - Dam di Mélezet (TO) - (Above Bardonecchia) - (Dora Riparia Valley) - 16-VI-61 - H.P. *Satureja ?calamintha*: 1♂ not prepared.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Compositae* (*Taraxacum*, etc.): ♂♂♀♀ not prepared.

- Typhl. 344 - AOSTA VALLEY - Gran Paradiso National Park - between Cané and Proussaz (AO) - (Rhêmes Valley) - m 1,550 ~ - 19-IX-61 - H.P. *Leontodon pyrenaicus* (Compositae): 2♂♂ 1♀ dry.
- Typhl. 356 - FRIULI-VENEZIA GIULIA - Gorizia - (5 Km outside the town, on the left of the road Gorizia-Gradisca, arid heading) - 2-X-61 - H.P. *Thymus serpyllum*: 2♂♂ 1♀ not prepared.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Prunella vulgaris*: 11♂♂ 4♀♀ dry.
- Typhl. 416 - PIEDMONT - Ormea (CN) - m 719 - (Wasteland, a little before the town, on the left of the road coming from Ceva) - 14-IX-62 - H.P. *Prunella vulgaris*: ♂♂ ♀♀ not prepared.
- Typhl. 439 - PIEDMONT - Caselette (TO) - (Susa Valley) - 2-X-62 - H.P. perennial polyphyte meadow (biotope near an apple tree: some host plants in a semi-arid environment, others in a humid environment) - H.P. *Crepis virens* (depigmented leaves): 1♀ dry (in a relatively humid locality!).
- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Prunella vulgaris*: 1♀ dry.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - H.P. *Prunella vulgaris*: 1♀ dry.
- Typhl. 516 - TUSCANY - Abetone (PT) - m 1,200 - 18-VIII-64 - (Beechwood of the Tuscan slope) - H.P. *Prunella vulgaris*: 1♂ 2♀♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Prunella vulgaris*: ♂♂ ♀♀ not prepared.
- Typhl. 546 - LOMBARDY - Val Camonica - Breno (BS) - m 340 - Chestnut wood - 21-VIII-66 - H.P. *Prunella vulgaris*, *Thymus serpyllum*, *Leontodon*: ♂♂ ♀♀ + nymphs - 1♀ dry.
- Typhl. 548 - LOMBARDY - Val Camonica - Ponte di Legno-Passo del Tonale (BS) - 6th curve - m 1,550 - 21-VIII-66 - (Mixed broadleaf and conifer wood) - H.P. *Prunella vulgaris*, *Thymus serpyllum*: 5♂♂ 3♀♀ dry.
- Typhl. 554 - TRENTINO-ALTO ADIGE - Campo Carlo Magno (TN) - m 1,700 - 22-VIII-66 - H.P. *Thymus serpyllum* (?*angustifolius*): 1♂ 1♀ dry.
- Typhl. 563 - TRENTINO-ALTO ADIGE - Piano delle Fugazze (TN) - m 1,150 - 23-VIII-66 - H.P. *Thymus serpyllum* (at the base of bushes of *Corylus*, *Rosa*, *Fraxinus*, etc., in meadow clearings among *Fagus*): 1♂ 1♀ dry.
- Typhl. 564 - JUGOSLAVIJA - Kutina (Hrvatska) - Locality at 70 Km from Zagreb - 1-IX-66 - hilly zone, m 250-300 - H.P. *Thymus serpyllum* (*ovatus*), *Prunella vulgaris* etc., in a mixed coppice wood (*Quercus robur*, *Carpinus*, etc.), high humidity: ♂♂ ♀♀ - 2♀♀ dry.
- Typhl. 565 - JUGOSLAVIJA - Sveta Petka - Kutina (Hrvatska) - Locality 12-15 Km from Kutina - 1-IX-66 - H.P. *Thymus serpyllum* (*ovatus*), in a hilly wasteland exposed southwards, among relatively humid pastures (m 250): 1♀ dry.

- Typhl. 569 - PIEDMONT - Colle del Moncenisio (TO) - m 2,084 - 21-IX-66 - Karstic zone, with foibas and small dolinas, between the road and the lake - H.P. *Thymus serpyllum* v ? : 1 ♀ dry.
- Typhl. 738 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope opposite to the cableways - m 1,500 - H.P. *Prunella vulgaris* (along the path, m 1,550): 1 ♂ dry.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Quarzina (CN) - 9-VIII-81 (meadow): 1 ♂.

EUPTERYX rostrata Ribaut, 1936

- Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - 10-VII-61 - River Simeto (m 10) - H.P. (?*Inula*), *Pulicaria disenterica*!, *Mentha rotundifolia*!: !!! 2 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Chrysanthemum (Tanacetum) siculum*!: !!! 3 ♂ ♂ dry, of which 2 parasitized by pipunculids, and bigger than the healthy one.
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Pulicaria disenterica* (similar to *Inula*): 3 ♂ ♂ 4 ♀ ♀ dry.
- Typhl. 329 - SARDINIA - Oristano (CA) - (Wasteland at 6 Km from the town, on the right of the road to Cagliari) - 13-VIII-61 - H.P. *Pulicaria dysenterica*: 1 ♂ 9 ♀ ♀ dry.
- Typhl. 372 - SARDINIA - Muravera (CA) - 18-X-61 - H.P. *Pulicaria disenterica*: 2 ♂ ♂ 4 ♀ ♀ dry (all 4 ♀ ♀ are parasitized by *Aphelopus*).
- Typhl. 383 bis- SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Mentha rotundifolia*, *M. longifolia*: ! 1 ♂ dry (aedeagus not present in the preparation) - H.P. *Melissa officinalis* v *romana*! (big bushes against the escarpment near the bridge): 1 ♂ 1 ♀ dry.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. *Mentha rotundifolia*, *M. longifolia* (hollow with water stagnation): ! 2 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne, after the town) - 16-IV-62 - H.P. *Mentha rotundifolia*: 3 ♂ ♂ 3 ♀ ♀ dry.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Mentha rotundifolia*: 4 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 393 - SICILY - Godrano-Ventimiglia (PA) - 17-IV-62 - H.P. *Teucrium scorodonia* v *siculum* (strong bushes in a farm yard): 1 ♂ 1 ♀ dry.
- Typhl. 394 - SICILY - Monreale (PA) - 18-IV-62 - H.P. *Mentha rotundifolia*, *Satureja calaminta* v *nepeta*: 1 ♂.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Pulicaria dysenterica*: 3 ♂ ♂ 2 ♀ ♀ dry (2 ♂ ♂ 1 ♀ parasitized by *Aphelopus*, 1 ♀ parasitized by a pipunculid). In the parasitized ♂ ♂ only the last tarsomere is brown and slightly similar to that of the ♀ ♀.

- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Pulicaria dysenterica* (with many depigmented leaves; I noted this also in many other zones of the island): 1 ♀ dry.
- Typhl. 489 - SARDINIA - Mount Corrasì (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Teucrium flavum* v *glaucum* (Sardinia and Corsica): ! 1 ♀ dry.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - H.P. *Pulicaria dysenterica* (very depigmented leaves): 1 ♂ 1 ♀ dry.
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Pulicaria dysenterica* (with very depigmented leaves, under tall *Populus nigra*): 4 ♂ ♂ 2 ♀ ♀ dry (♂ ♂ ♀ ♀ parasitized by dryinids).
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300 - East of the town - (*Quercus ?pubescens*) - H.P. *Pulicaria dysenterica*: 2 ♀ ♀ dry.
- Typhl. 796 - SICILY - Mount Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - m 1,650 - H.P. *Tanacetum siculum* shaded by *Pinus laricio*: 1 ♀ dry.
- Typhl. 800 - SICILY - Augusta (SR) - (Bridge near the river...) - (Between the river Cantera and the river Mulinello: fenced) - 28-VIII-85 - h 18,30-20,00 - H.P. *Pulicaria dysenterica*: 3 ♂ ♂ 9 ♀ ♀ dry - H.P. *Mentha rotundifolia*, *M. longifolia*: 3 ♂ ♂ 5 ♀ ♀ dry.

EUPTERYX salviae Arzone and Vidano, 1994

- Typhl. 362 - FRIULI-VENEZIA GIULIA - S. Croce (TS) - Near the natural tunnel along the seaside - 3-X-61 - H.P. *Salvia officinalis* (endemism): 3 ♂ ♂ 2 ♀ ♀ dry - similar to *E. alticola* (concerning the aedeagus), *E. melissae* as per colour distribution - (Cfr. Typhl. 524, 525, 528, 572, 573) - Cfr. *E. castelveccicus* Dlabola 1967! - phot. 9,303: ♂, length 2.60 mm; 9,302: ♀, length 2.65 mm - **Drawings**: aedeagus lateral and dorsal; spiniform process of the pygofer lobe - ♂: pygofer lobes black, anal tube and genital blades light, hind legs and their tarsi without brown areas - Abdomen: ♂ in part brown dorsally and yellow ventrally; browner also ventrally in the ♀ - ♂ length mm 2.5-2.7; ♀ mm 2.6-2.9.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - H.P. *Teucrium polium*: 1 ♂ 1 ♀ dry - H.P. *Thymus serpyllum* v *chamaedrys*: 1 ♂ 1 ♀ dry - (Cfr. Typhl. 362).
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas, etc. - 4-IX-64 - H.P. *Thymus serpyllum* v *praecox* (in a thick understorey of *Fagus*, *Acer*, etc.): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,350 - Locality near Njeguši. - On the road Kotor-Cetinje - 7-IX-64 - H.P. *Salvia officinalis*: 8 ♂ ♂ 7 ♀ ♀ (2 ♂ ♂ 1 ♀ in alcohol) - Length of ♂ ♂ mm 2.75-3.10; ♀ ♀ mm 2.90-3.25 - The insects are many on the plants sheltered by rocks and bushes. Very depigmented leaves - (Cfr. Typhl. 362, 524, 525).
- Typhl. 530 - JUGOSLAVIJA - Montenegro - Titograd (airfield) - 8-IX-64 - H.P. *Salvia*

officinalis: 1 ♀ dry - phot. 12,988-12,988 bis: ♀, length mm 2.9.

Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, about 15 Km from Niš, on the left of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - Karstic locality, rich of *Salvia officinalis* - H.P. *Salvia officinalis*: 4♂♂ 11 ♀♀ dry - (Cfr. Typhl. 362, 524, 525, 528) - Present abundantly (very depigmented leaves) on *Salvia* in the shadow and in the sun - 6 ♀♀ pipunculidized (reared the 6 puparia: 9-VI-67 - Emerged on 18-VI: 2 specimens; 20-VI: 1 specimen; 24-VI: 1 specimen - Prepared dry.

Typhl. 865 - FRIULI-VENEZIA GIULIA - Prepotto - Hamlet Albana (UD) - 25-IX-86 - H.P. *Salvia officinalis*: 7♂♂ 12 ♀♀ dry. See joint sheet.

Typhl. 869 - VENETIA - Nanto (VI) - 26-IX-86 - H.P. *Salvia officinalis*: 4♂♂ 7 ♀♀ dry (2♂♂ 1 ♀ dryinidized) - Treatments - Sauvignon (white) - *Phylloxera*.

EUPTERYX schuleri Ribaut, 1952

Typhl. 324 - SARDINIA - Platamona (SS) - 11-VIII-61 - (Area of the marshy zone in front of the Forestry Corps' building) - H.P. *Satureja calamintha* v *nepeta*: !!! 4♂♂ 5 ♀♀ (2♂♂ 3 ♀♀ dry) - (2♂♂ 2 ♀♀ in a plastic tube). Phot. 9,158-9,159: ♂, length mm 2.8 - Some specimens parasitized by pipunculids; aedeagus with 2 short pointed distal processes - (Cfr. Typhl. 326, 327) - **Drawings** of the aedeagus lateral and frontal.

Typhl. 326 - SARDINIA - S. Gregorio (CA) - road to Muravera (private holding, villa with park and vegetable garden) - 12-VIII-61 - H.P. *Satureja calamintha* v *glandulosa* Candèze (in a stream with water): !! 1♂ 1 ♀ in a plastic tube - (Cfr. Typhl. 324, 327).

Typhl. 327 - SARDINIA - S. Gregorio (Cagliari) - 12-VIII-61 - (Stream with little water along the road to Muravera) - H.P. *Satureja calamintha* v *nepeta*! (Labiatae): !! 2♂♂ 1 ♀ in alcohol - (Cfr. Typhl. 324, 326).

Typhl. 372 - SARDINIA - Muravera (CA) - 18-X-61 - H.P. *Satureja calamintha* v *glandulosa*: 9♂♂ 11 ♀♀ (of which 3♂♂ 6 ♀♀ parasitized by *Aphelopus*) - H.P. *Satureja calamintha* v *nepeta*: 5♂♂ 8 ♀♀ dry (2♂♂ 2 ♀♀ parasitized by *Aphelopus*).

Typhl. 377 - SARDINIA - Iglesias (CI) - (On the road between Iglesias and Domusnovas) - 19-X-61 - H.P. *Satureja calamintha* v ..., *Lycopus europaeus*: 1 ♀ dry.

Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Mentha pulegium*!, *Mentha aquatica*! (det. Ariello): ! 1♂ 4 ♀♀ not prepared.

Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena-Bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Satureja calamintha* v *glandulosa*: 3♂♂ 3 ♀♀ dry.

Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *M. rotundifolia* (in a stream): ! 1♂ dry.

Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI)- 20-IX-62 - (gully, near Ponti) - H.P. *Mentha rotundifolia*, *M. aquatica*, *Satureja calamintha* v *nepeta*: ♂♂ ♀♀ + juveniles all not prepared - (Cfr. Typhl. 433).

Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Mentha rotundifolia*, *Satureja calamintha* v *nepeta*: 5♂♂ 4 ♀♀ dry.

Typhl. 441 - SARDINIA - Campu Omu - (On the right of the road Cagliari-Muravera, close to the crossroad to Burcei) - Fluminimaggiore (CI) - m 5 - 7-X-62 - (In the stream

bed) - H.P. *Mentha rotundifolia*!: 3♂♂ 5♀♀ not prepared (1♂ parasitized by *Aphelopus*).

EUPTERYX stachydearum (Hardy, 1850)

Typhl. 12 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Stachys sylvatica*, *Lamium maculatum* (along the Canal, in a shady place) - 6 individuals of which: 1♂ 5♀♀. The ♂ has the 2nd tarsomere of the metathoracic legs black - 1♂ 2♀♀ in alcohol.

Typhl. 13 - (Cfr. Typhl. 32) - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Salvia glutinosa* (along the Canal, Scapino's orchard): 11 individuals of which 3♂♂ (1 in copula in alcohol) 8♀♀; species identical to Typhl. 12 (See) - 1♀ is parasitized by a dryinid larva - 2♂♂ 4♀♀ in alcohol - For confirmation I should check the male genitalia and above all the aedeagus that does not seem to correspond neither with *E. stachydearum* nor with *E. collina*.

Typhl. 26 - PIEDMONT - Turin - (Plant Pathology's garden) - 28-X-55 - H.P. *Ballota nigra* - the lower leaf page shows clear light (almost white) depigmentation spots - *Eupteryx* of the *melissae* group - it could be *E. collina* - I collected 12 individuals: 4♂♂ 2♀♀ dry, 3♂♂ 3♀♀ in alcohol - (determination made on 20-V-57 contemporaneously with the individuals of Typhl. 94: cfr).

Typhl. 32 - PIEDMONT - Turin - (Botanical gardens) - 24-IX-56 - (see also Typhl. 13) - H.P. *Teucrium chamaedrys*, *Stachys sylvatica*, *Lycopus europaeus*: presence of several adults, and neanids and nymphs on the lower leaf page of the examined Labiatae. Remarkable depigmentation areas on the leaves. 1♂ 7♀♀ dry. 1♂ 2♀♀ in alcohol + some nymphs.

Typhl. 44 - PIEDMONT - Caluso (TO) - (Dry ditch, Passera Marcello's ditch) - 6-X-56 - H.P. *Stachys sylvatica*: 1♂ 2♀♀ dry. 1♂ 2♀♀ in alcohol - For confirmation examine the male genitalia (also of Typhl. 13 and 32).

Typhl. 87 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field, along the Canal) - 5-V-57 - H.P. *Lamium maculatum*, *Stachys sylvatica*: 1♂ 1♀ dry - Presence of nymphs on the lower page of the host plants: 3 in alcohol with 1♀.

Typhl. 94 - PIEDMONT - Turin - (Plant Pathology's yard) - 20-V-57 - (Cfr. Typhl. 26) - H.P. *Ballota nigra*: 10♂♂ (4 dry, 6 in alcohol), 6♀♀ (1 dry, 5 in alcohol) - This species is represented now almost only by adults - Very few are the late 5th instar nymphs - phot. 3,921: ♀; 3,922: ♂; 3,920: tegmen and wing of a ♂ - H.P. *Urtica dioica*: 2♂♂ dry.

Typhl. 107 - APULIA - S. Giovanni Rotondo (Gargano) (FG) - Near the convent - m 600~ - 5-VI-57 - H.P. *Mentha longifolia* v *viridis* (pension Longo): 1♂ 3♀♀ dry - H.P. *Salvia officinalis* (pension Longo): 2♂♂ 1♀ dry.

Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Locality Follocare (FG) - 6-VI-57 - H.P. *Satureja* sp. (humid understorey): 1♂ dry.

Typhl. 128 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field) - 6-VII-57 - H.P. *Lamium maculatum*: 1♂ 1♀ dry - H.P. ? (nettles, *Stachys*, *Lamium*) - (Cfr. Typhl. 138) - *Eupteryx* parasitized by *Aphelopus*: 1♂ dry - The ♂ differs from *E. stachydearum* by having: 1) 2 spots on the frons; 2) postclypeus and anticypeus brown; 3) 2 median isolated spots on the scutum; 4) tarsi completely light, except the last one

that is infumate; 5) light abdomen; 6) aedeagus like in the drawing (dorsal and lateral); tegmina like those of *E. stachydearum*.

Typhl. 135 - PIEDMONT - Germagnano (Lanzo) (TO) - 10-VII-57 - H.P. *Stachys sylvatica* - (very depigmented leaves): presence of several ♂♂ ♀♀ adults and juveniles of all instars - 3♂♂ 1♀ dry - Forma *melanica* - 1♂ has the head coloured like the ♀ and like the ♂ of Typhl. 128 with 2 spots on the scutum, but it has the aedeagus identical to that of *E. stachydearum* (dry) - (Abdomen, including the pygofer lobes, light; also the tarsi are light, except the last one that is infumate).

Typhl. 138 - PIEDMONT - Caluso (TO) - (Hedge of the Canal-Tululena) - (Cfr. Typhl. 128) - 13-VII-57 - H.P. *Salvia glutinosa*, *Stachys sylvatica* - I collected 44 individuals of which: 17♂♂ (7 healthy - 3 dry, 4 in alcohol; 10 parasitized - 3 dry, 7 in alcohol), 27♀♀ (13 healthy - 3 dry, 10 in alcohol; 14 parasitized - 3 dry, 11 in alcohol) - parasitized ♂♂ ♀♀ show remarkable colour changings. Cfr. description. Colour alterations are present also in *E. urticae* ♂♂ (cfr. Typhl. 139) - H.P. *Lamium maculatum*: 4♂♂ (2 healthy, 2 parasitized), 9♀♀ (4 healthy, 5 parasitized) all not prepared.

Typhl. 140 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 18-VII-57 - H.P. *Mentha piperita*: presence of plenty adults: 1♂ 1♀ forma typica prepared dry - 1♀ (dry) with the 2 spots on the frons connected with those of the temples by as many black stripes, but it is not the var *continua* Cerutti - Ribaut at page 167 line 2 writes: spots on the top projecting sometimes from the lower border a line connecting them to those of the temples. It would be worthwhile to create a new variety. **Drawing.** Mint leaves are extraordinarily depigmented.

Typhl. 141 - PIEDMONT - Caluso (TO) - 18-VII-57 - H.P. *Lycopus europaeus* (Salvetti's dry ditch, under alders): 1♂ parasitized, dry (other ♂♂ reared with a ♀) - **Drawings** of the aedeagus - H.P. *Chenopodium vulgare* (Canal: Monti Pedrin): 1♂ parasitized, dry - H.P. *Galeopsis*: ♂♂ ♀♀ parasitized in rearing - H.P. *Stachys sylvatica*: ♂♂ ♀♀ parasitized in rearing. 20-VII-57 beginning of cocooning of the *Aphelopus* (cfr. paper on *E. stachydearum*) - 7-VIII-57 a pipunculid dipteran emerged: dry with the puparium. Phot. 4,247, 4,248: *Aphelopus* cocoons; 4,249: ♀ parasitized by *Aphelopus*. 5-VIII-57, 20-VIII-57 the first 2 *Aphelopus* emerged (1 headless: in alcohol) 1 adult (dry) - in alcohol one pupa and one larva extracted from their cocoons.

Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Mentha longifolia* v *viridis*: 1♀ not prepared.

Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the Farm Viola) - 28-VII-57 - H.P. *Cannabis sativa*: ! 1♂ dry, !reared from a nymph collected on hemp.

Typhl. 160 - PIEDMONT - Caluso (TO) - (Tululena's field - hedge of the Canal) - 10-VIII-57 - H.P. *Lamium maculatum*: 1♂ 1♀ not prepared.

Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Nepeta nepetella*, *Melissa officinalis* (Labiatae): ♂♂ ♀♀ not prepared.

Typhl. 191 - PIEDMONT - Stupinigi (TO) - (Along the boundary wall of the Palace, on the East) - 18-IX-57 - H.P. *Urtica dioica*: ♂♂ ♀♀ not prepared - H.P. *Parietaria officinalis*: 1♂ 2♀♀ dry.

- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. *Stachys sylvatica*: 30 adults 13 of which healthy (7♂♂ 6♀♀ in alcohol) and 17 with *Aphelopus* larvae (9♂♂ 8♀♀ all in alcohol) - phot. 4,399: ♂ parasitized by *Aphelopus* seen ventrally - Presence of juveniles of all instars, including newly hatched neanids. 25-IX-57 emergence of larvae - 2♀♀ parasitized by pipunculids: in alcohol - 2 pipunculid pupae reared - H.P. *Lamium maculatum*: 2♂♂ 1♀ dry - 1♂ seems parasitized by a strepsipteran; dry.
- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Achillea millefolium* (rather dry environment): 1♂ 1♀ not prepared.
- Typhl. 200 - PIEDMONT - Barone Canavese (TO) - (Humid ditch along Bianco Pietro's field) - 28-IX-57 - H.P. *Lycopus europaeus*: 5♂♂ 1♀ dry.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Lycopus europaeus*: several ♂♂♀♀. Some ♂♂♀♀ are parasitized by pipunculids. The attacked ♂♂ (recognizable by the big abdomen, when the parasite's larva is already well developed, show the completely light tarsi - 6♂♂ parasitized by pipunculids (1 dry, 5 in alcohol), 4♀♀ (parasitized by pipunculids) in alcohol - ♂♂♀♀ healthy in alcohol - 2♂♂ 2♀♀ healthy dry.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Chrysanthemum indicum*: ! 1♂ 2♀♀ not prepared.
- Typhl. 215 - PIEDMONT - Forno Alpi Graie (TO) - 10-X-57 - H.P. *Satureja vulgaris*, *Veronica chamaedrys*: ! 4♂♂ 1♀.
- Typhl. 218 - PIEDMONT - Cantoira (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Lamium maculatum* (few isolate plants in the middle of a meadow behind a rock): 4♂♂ 4♀♀ dry - H.P. *Urtica dioica*, *Parietaria officinalis*: 2♂♂ 2♀♀ dry.
- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 12-X-57 - H.P. *Galeopsis* sp. (pale amaranth flowers), *Lycopus europaeus*: 2♂♂ healthy, 2♂♂ 1♀ parasitized by *Aphelopus* dry. 27♂♂ (13 healthy, 12 parasitized by *Aphelopus*, 2 parasitized by pipunculids, in alcohol); 13♀♀ (3 healthy, 9 parasitized by *Aphelopus*, 1 parasitized by a pipunculid with puparium, all in alcohol). 2♂♂ healthy, 2♂♂ 1♀ parasitized by *Aphelopus* dry. Presence of juveniles of all instars.
- Typhl. 222 - PIEDMONT - Pino Torinese (TO) - (Park of a villa) - 14-X-57 - H.P. *Salvia officinalis*: 2♂♂ 2♀♀ dry - H.P. rosemary: 1♂ 1♀ dry.
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal - Tululena's field) - 26-X-57 - H.P. *Lamium maculatum*: 1♂ 6♀♀ not prepared.
- Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - Presence of a great number of *Dikraneura hieracii* on different herbaceous plants of the meadow and the understorey, the former are covered by leaves and were abandoned by the insect, of which however the traces remain on the surviving parts of *Veronica urticifolia* and *Hieracium prenanthoides* - H.P. *Teucrium scorodonia* (at the base of a rock): 5♀♀ dry.
- Typhl. 228 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - m 800 - (Delpiano's house) - H.P. *Lamium maculatum*: 3♀♀ dry.
- Typhl. 243 - PIEDMONT - Caluso (TO) - 31-V-58 - H.P. *Stachys sylvatica*: 3♀♀ not prepared.

- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Salvia officinalis*: 1 ♀ not prepared.
- Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the Canal) - 28-VII-58 - H.P. *Stachys sylvatica*: 10 ♂ ♂ 10 ♀ ♀ in alcohol - Some individuals are parasitized by dryinids. Presently the juvenile stages are represented only by few last instar nymphs. The exuviae of mature nymphs are instead very abundant on the lower page of the leaves - H.P. *Lamium maculatum*: 5 ♂ ♂ 5 ♀ ♀ not prepared.
- Typhl. 259 - PIEDMONT - Nizza Monferrato (AT) - (road to Alessandria, 2-3 Km from the city) - 31-VII-58 - H.P. *Ballota nigra*: 2 ♂ ♂ 8 ♀ ♀ not prepared.
- Typhl. 274 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Xerothermic oases) - 22-X-58 - H.P. *Marrubium vulgare*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Lamium maculatum*: !! 1 ♂ 3 ♀ ♀ dry.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) (Val-savarenche) - m 1,200~ - 15-IX-59 - H.P. *Satureja grandiflora*, *Mentha longifolia*, *Stachys sylvatica*: many ♂ ♂ ♀ ♀ in a plastic tube (there are still many juveniles including 1st instar neanids).
- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - m 1,028 - H.P. *Stachys sylvatica*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Ballota nigra* (near the village): 3 ♂ ♂ 6 ♀ ♀ - H.P. *Chaerophyllum* sp. (plant near *Ballota nigra*): 2 ♂ ♂ 1 ♀ not prepared.
- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Chrysanthemum* (*Tanacetum*) *siculum*: ! 1 ♂ not prepared.
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Mentha rotundifolia* (similar to *Inula*): 1 ♂ dry (with short external processes of the aedeagus) - (Cfr. Typhl. 333) - **Drawing** of the aedeagus.
- Typhl. 326 - SARDINIA - S. Gregorio (CA) - (road to Muravera) - 12-VIII-61 - (Private holding: villa with park and vegetable garden) - H.P. *Satureja calamintha* v *glandulosa* Candèze (in a stream with water): ? 2 ♀ ♀ dry.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Satureja vulgaris*: 1 ♂ 1 ♀ dry (**drawing** of the aedeagus, like in Typhl. 322).
- Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small fountain - 16-VIII-61 - H.P. *Satureja calamintha* (glandulose stipules ?Ceruti): 4 ♂ ♂ 5 ♀ ♀ dry (with processes of the aedeagus like in Typhl. 322).
- Typhl. 346 - PIEDMONT - Caluso (TO) - (Briamara) - Hedge along the Canal, near Scapino's orchard - 23-IX-61 - H.P. !*Stachys sylvatica*, !*Ballota nigra*, !*Lamium maculatum*, !*Bidens* - Plenty specimens: 3 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 347 - PIEDMONT - Orco Valley - Locana (TO) - m 613 - 27-IX-61 - H.P. *Stachys sylvatica*, *Ballota nigra*: 3 ♂ ♂ 5 ♀ ♀ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality S. Giovanni - (Coppice thick-

- ets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Stachys sylvatica*, *Melissa officinalis* (very smelly): 4♂♂ 2♀♀ dry.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Mentha sylvestris*, *M. aquatica*: 2♂♂ 4♀♀ - H.P. *Lycopus europaeus*: 3♂♂ 1♀ dry together.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Centaurea jacea* v *amara* (with depigmented leaves): 1♂ 1♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! of which a Typhl. 356 - Cool and relatively humid environment!) - H.P. *Lamium maculatum*: 1♂ 2♀♀ not prepared.
- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Lycopus europaeus*: 3♂♂ 4♀♀ not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Lamium orvala* (humid environment, constantly shaded, at the entrance of the Bear's cave) - Mixed with nettles: 2♂♂ 9♀♀ (2♂♂ 3♀♀ dry) - (In the ♀♀ joint spots on the vertex).
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Teucrium scorodonia*!!! (leaves like in *Salvia* spp.): 2♂♂ 4♀♀ not prepared.
- Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - near the tunnel of Quassolo - 13-X-61 - H.P. *Rosmarinus officinalis* (against a rocky wall exposed southwards, next to a *Mespilus japonica* plant) - I collected by night: 1♀ dry.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Melissa officinalis* v *romana*! - (big bushes against an escarpment near the bridge) - ?v *continua*: 2♂♂ 2♀♀ dry. Processes of the aedeagus slightly different from those of the Piedmontese specimens and similar to those of the Sardinian specimens - **Drawings** of the aedeagus lateral and frontal - (Cfr. Ribaut 1948: *Cicadella insulana*) - ?v *continua*: 2♀♀ dry. **Drawings** of the vertex.
- Typhl. 389 - SICILY - Palermo - (Botanical gardens) - 17-IV-62 - H.P. *Artemisia senicavensis* (very similar to *A. vulgaris*): 3♂♂ 4♀♀ dry. Aedeagus with straight lateral appendages.
- Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Urtica dioica*: 1♂ dry + pipunculid pupa (aedeagus with straight lateral appendages).
- Typhl. 391 - SICILY - Palermo - (Bosco della Ficuzza) - m 1,000-1,200 - 17-IV-62 - H.P. *Lamium pubescens*! (under holm oak bushes among brambles): 3♂♂ 3♀♀ + nymphs dry. Aedeagus in both ♂♂ (healthy!) with very short lateral processes. **Drawing** - (Cfr. Typhl. 558).
- Typhl. 393 - SICILY - Godrano-Ventimiglia (PA) - 17-IV-62 - H.P. *Teucrium scorodonia* v *siculum* (vigorous bushes in a farm yard): 1♂ 6♀♀ dry. Lateral processes of the aedeagus relatively short.
- Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - H.P. *Prasium majus* (Labi-

- atae): 1♂ dry - Specimen with the lateral processes of the aedeagus almost normal.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Ballota nigra*: 2♀♀ dry.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Lycopus europaeus*: ♂♂♀♀ not prepared.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *Mentha rotundifolia* (in a stream): 2♂♂6♀♀ (1♂ dry).
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Prunella grandiflora* (det. Ariello): ! 1♂ not prepared.
- Typhl. 424 - LIGURIA - Giogo di Toirano (SV) - m 800~ - 16-IX-62 - H.P. *Lycopus europaeus*: ! ♂♂♀♀ not prepared.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 ~, 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. !*Hieracium pilosella*, !*Teucrium scorodonia*: 1♀ dry.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Lycopus europaeus*: 1♂ dry.
- Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Teucrium chamaedrys* (plants with very depigmented leaves sheltered by big rocks, close to the castle ruins): 1♂ dry.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Hieracium* sp., *Lamium maculatum*, *Prunella vulgaris*, *Geranium* etc., (under chestnut bushes): 6♂♂2♀♀ dry. **Drawing** of the aedeagus - H.P. *Mentha ?rotundifolia* (North-East of a farmhouse): 2♂♂ not prepared.
- Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 - H.P. *Satureja calamintha* (under chestnut bushes): ? 2♂♂1♀ dry. ♀ with the first tarsomere almost completely black - **Drawing** of the aedeagus.
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - Day of strong wind - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - Northwards and at the base of rocks sheltering more or less the vegetation beneath: 4♂♂2♀♀ not prepared (coming from nearby Labiatae).
- Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge on the road Sassari-Alghero) - 27-V-64 - H.P. ?*Ballota nigra* (near *Urtica dioica*, under *Salix alba* and a *Rubus* hedge, editor's note): 3♂♂2♀♀ dry - H.P. *Melissa officinalis* (ditch North of a *Rubus* hedge): 1♂4♀♀ (pipunculidized) not prepared.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - 28-V-64 - (South of the hotel Mirafiori) - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea*, *Q. ilex* (bushes) - (Wind!): 1♀ not prepared.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Geranium lucidum*, !*Lamium garganicum corsicum*!! (in a pseudofoiba): 7♂♂7♀♀ dry (there are no nettles in this biotope).
- Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Mentha rotundifolia v insularis* (South, Corsica, Sicily): ? 1♂1♀ dry - 5♂♂3♀♀ in alcohol. **Drawing** of the aedeagus.

- Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall - (Park of the Institute) - 11-VII-64 - H.P. *Teucrium scorodonia*: ? 1♂ 1♀ dry. **Drawing** of the aedeagus.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826! to check) - H.P. *Mentha*, *Glechoma*, *Lycopus*, *Stachys*, *Centaurea* sp.: 1♂ 1♀ dry - H.P. *Ballota nigra*: !♂ ♂ ♀ ♀ not prepared.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, after Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Stachys germanica* v *Reinerti* (under *Rosa montana*), *Ballota nigra*, *Lamium bifidum*: 1♀ dry.
- Typhl. 515 - TUSCANY - Pianosinatico - Cutigliano (PT) - m 800-900 - 18-VIII-64 - H.P. *Stachys sylvatica*: 2♂ ♂ 2♀ ♀ dry.
- Typhl. 516 - TUSCANY - Abetone (PT) - m 1,200 - 18-VIII-64 - (Emilian slope, arid slope) - H.P. *Hieracium murorum* (depigmented leaves): ! 2♂ ♂ 1♀ dry.
- Typhl. 518 - ABRUZZO - Gran Sasso (AQ) - Campo Imperatore (Slope East of the Astronomic Observatory) - m 2,200 ~ - 26-VIII-84 - H.P. *Lamium garganicum*, *Urtica dioica* (luxuriant vegetation - waste water drain of the hotel): 1♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Ballota nigra*: 3♂ ♂ 1♀.
- Typhl. 527 - JUGOSLAVIJA - Obravac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Urtica dioica*, *Mentha rotundifolia*, *Melissa* spp., *Marrubium*, *Ballota nigra*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,350 - Locality near Njeguši. - On the road Kotor-Cetinje - 7-IX-64 - H.P. *Urtica dioica* and *Ballota nigra*: 1♂ dry.
- Typhl. 537 - PIEDMONT - Val Gesso - Valdieri (CN) - 29-X-64 - m 800 - Karstic zone - H.P. *Thymus serpyllum* v *lanuginosus*, *Thymus serpyllum* v *ovatus* sheltered under protruding rocks. I collected during a shower (very depigmented leaves, even dry): 1♂ dry. Very interesting zone from a floristic viewpoint; presence of *Satureja montana* (?*communis*), *Globularia cordifolia* (v *repens*), *Rhus cotinus* - It is worthwhile collecting in May-June and September.
- Typhl. 539 - PIEDMONT - Vinadio (CN) - m 950 ~ - 29-X-64 - H.P. *Satureja calamintha* v ...: 1♂ 1♀ dry (1♂ parasitized by *Aphelopus*).
- Typhl. 546 - LOMBARDY - Val Camonica - Breno (BS) - m 340 - Chestnut wood - 21-VIII-66 - H.P. *Satureja vulgaris*, *Teucrium scorodonia*: 12♂ ♂ 1♀ dry (3♂ ♂ pipunculidized).
- Typhl. 556 - TRENTINO-ALTO ADIGE - Pianizza di Sopra (BZ) - (Along the road Passo della Mendola-Bolzano. Zone with chestnuts) - m 500! - 22-VIII-66 - H.P. *Hieracium* spp. (beneath chestnuts, in a humid environment): ! 1♀ not prepared.
- Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000 ~ - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Urtica dioica*: ? 1♂ dry.
- Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, about 15 Km from Niš, on the left

- of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - Karstic locality, rich of *Salvia officinalis* - H.P. *Parietaria officinalis*: !♂ ♂ ♀ ♀ not prepared.
- Typhl. 594 - PIEDMONT - Roddino (CN) - 31-VIII-80 - H.P. *Mentha rotundifolia*: 2 ♀ ♀ not prepared.
- Typhl. 626 - PIEDMONT - Ceresole Reale (TO) - (Base - right orographic side of the lake) - 23-VIII-81 - m 1,612 - H.P. *Urtica dioica*: 5 ♀ ♀ dry.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Teucrium scorodonia*: plantlets grown in the shade, under *Fagus*: 6♂ ♂ 6♀ ♀ + nymphs (2♂ ♂ pipunculidized: with light tarsi) - Luxuriant plants, making a "cushion" of 1 m ~ diameter, in a widening of the mountain road.
- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - H.P. *Ballota nigra*: 1♂ 1♀ dry.
- Typhl. 738 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope opposite to the cableways - m 1,500 - H.P. *Teucrium scorodonia* (trackside, in a beechwood): 1♂ 2♀ ♀ dry.
- Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Origanum vulgare*, *Teucrium scorodonia*: 3 ♀ ♀ not prepared.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. *Galeopsis pubescens* (hedge in the shadow beneath wild hazelnuts): 7♂ ♂ dry, 1 ♀ not prepared. 3♂ ♂ pipunculidized, 1♂ dryinidized (all with light tarsi).

EUPTERYX tenella (Fallén, 1806)

- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Achillea millefolium* (rather dry environment - mentioned on *A. millefolium* in Edwards, 1896): !!! 2♂ ♂ dry - It differs from forma typica having on the tegmina brown areas extended from the proximal end of the clavus (along the scutellar margin) to almost all the median cell and all apical cells. **Drawing** of the elytron.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Achillea millefolium* (basal leaves) - II: weak vegetation, in a more arid environment - 6♂ ♂ (2 dry, 4 in alcohol), 8♀ ♀ (4 dry, 4 in alcohol), 1 last instar nymph, in alcohol (mentioned on *A. millefolium* in Edwards, 1896) - phot. 4,414: ♂ - H.P. *Chrysanthemum (Tanacetum) vulgare* (basal leaves): 1♂ 1♀ dry.
- Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road, dry area) - 15-VII-58 - H.P. *Achillea millefolium* (plantlets based in an arid place): 4♂ ♂ (3 parasitized by *Aphelopus*), 4♀ ♀ (1 parasitized by *Aphelopus*), all in alcohol - very probably this *Aphelopus* species is what parasitizes *E. zelleri*.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Achillea millefolium*: 1♂ 14♀ ♀ dry.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Helianthemum vulgare*: 2♀ ♀ dry (presence of *Achillea millefolium* too).
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - Day of strong

wind - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - (Northwards and at the base of rocks sheltering more or less the vegetation beneath): 1 ♀ dry (coming from *Achillea*).

Typhl. 546 - LOMBARDY - Val Camonica - Breno (BS) - m 340 - Chestnut wood - 21-VIII-66 - H.P. *Achillea macrophylla*: 4♂♂ 2♀♀ dry.

Typhl. 561 - TRENTO-ALTO ADIGE - Pergine (TN) - (road to Vetriolo) - m 600 - 23-VIII-66 - H.P. *Achillea* sp. (Castanetum and Fagetum): 1♂ 1♀ dry.

Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000 ~ - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Achillea* (?*millefolium*): 6♀♀ dry.

Typhl. 587 - PIEDMONT - Pinerolo (TO) - m 650 - 8-IX-78 - (Grassy clearing near patches of *Calluna vulgaris* and on the edges of birch and chestnut woods) - H.P. *Achillea millefolium* (under birch): 4♂♂ 4♀♀ dry.

EUPTERYX thoulessi Edwards, 1926

Typhl. 55 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Lycopus europaeus*: 14 individuals of which 2♂♂ 12♀♀ - 1♂ dissected (end of the abdomen separated from the body) isolated in alcohol - 1♂ 7♀♀ in alcohol in another glass tube - 3♀♀ prepared dry - 2♀♀ 1 of which abnormal, in alcohol in a 3rd glass tube (**drawn** abdomen end of the 2♀♀) - the abnormal ♀ shows the valvae of the terebra separate proximally and the shape of last urites (urosternites in particular different). See drawing of the ventral part of the abdomen end of a healthy ♀ and that of the abnormal one (see Typhl. 59 too).

Typhl. 59 - PIEDMONT - Caluso (TO) - (Ditch between Gnavi's and Candia's properties) - 20-X-56 - H.P. *Mentha aquatica*: 3♂♂ (1 dry, 2 in alcohol) - ♀♀ (in alcohol) - One of the ♀♀ in alcohol shows the anomaly in gonapophyses, like what I already found in another ♀ collected at Ternavasso (TO) on *Lycopus* (see Typhl. 55).

Typhl. 361 - FRIULI-VENEZIA GIULIA - Mouth of the Timavo (TS) - (Bridge of the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Satureja calamintha*!, *Lycopus europaeus*!, *Pulicaria disenterica*!: !!! 4♂♂ 4♀♀ dry.

Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Mentha rotundifolia*, *M. longifolia*: ! 1♂ dry.

Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Mentha* ?*rotundifolia*: ♂♂ ♀♀ not prepared.

Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - ricefields and neighbouring wastelands - H.P. *Stachys palustris* (in a humid ditch): 2♂♂ dry (1♂ without the abdominal end).

EUPTERYX urticae (Fabricius, 1803)

Typhl. 8 - PIEDMONT - Caluso (TO) - 16-X-55 - Adults collected on nettle plants along an etiolated hedge in Bianco's orchard (along the Canal) - 9 individuals dry.

Typhl. 43 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 8-X-56 - H.P. *Mentha piperita* - var *conjuncta* Rey: 2♀♀ dry.

Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Gari-

- no, and Not Monti's properties) - 14-X-56 - H.P. *Urtica dioica* - var *conjuncta* Rey: 1 ♂ dry.
- Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Parietaria officinalis* v *Haupti*: 1 ♀ dry parasitized by a dryinid.
- Typhl. 81 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - (Cfr. Typhl. 78) - 15-IV-57 - H.P. nettles and *Parietaria* - 1st and 2nd instar neanids and 3rd instar nymphs on the lower leaf page.
- Typhl. 94 - PIEDMONT - Turin - (Yard of the Institute of Plant Pathology) - (Cfr. Typhl. 26) - 20-V-57 - H.P. *Urtica dioica*: 1 ♂ dry.
- Typhl. 138 - PIEDMONT - Caluso (TO) - (Hedge of the Canal - Tululena's field) - (Cfr. Typhl. 128) - 13-VII-57 - H.P. *Urtica dioica*: presence of many adults, (none of *E. immaculatifrons*!) and of last instar nymphs (completely black). 2 ♂ ♂ dry. In alcohol nymphs and several adults some of which parasitized by *Aphelopus* - The parasitized ♂ ♂ go through chromatic changes (light abdomen, light hind tibiae, etc.) - from 17 last instar nymphs the following have emerged within 25-VII: 7 ♂ ♂ 10 ♀ ♀ all *E. urticae*, no *E. immaculatifrons*.
- Typhl. 146 - APULIA - Gargano - Umbra Forest (FG) - m 800 - 22-VII-57 - H.P. *Urtica dioica* - several adults (all forma typica): 7 ♂ ♂ (2 dry), 15 ♀ ♀ (2 dry).
- Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of Pension Clelia) - 17-VIII-57 - H.P. *Parietaria officinalis* v *judaica*: 3 ♂ ♂ 1 ♀ dry. Presence of several adults (♂ ♂ ♀ ♀ in the same number) all of the forma typica not prepared.
- Typhl. 174 - CAMPANIA - Pagani (SA) - (Near Nocera) - (Falcone Tobia's orchard, via Romana 7) - 2-IX-57 - H.P. *Urtica* (not *U. dioica*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - (Sorrento) - 8-IX-57 - H.P. *Parietaria officinalis*: 3 ♀ ♀ dry.
- Typhl. 191 - PIEDMONT - Stupinigi (TO) - (Along the boundary wall of the Palace, eastwards) - 18-IX-57 - H.P. *Urtica dioica*: many adults, 2 ♂ ♂ 2 ♀ ♀ dry - H.P. *Parietaria officinalis*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Parietaria officinalis*, *Urtica dioica*: 13 ♂ ♂ 10 ♀ ♀ all of the forma typica; 3 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 218 - PIEDMONT - Cantoira (TO) - (Lanzo valleys) - 10-X-57 - H.P. *Urtica dioica*, *Parietaria officinalis*: 4 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 228 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - (Delpiano's house) - m 800 - H.P. *Urtica dioica*: 2 ♂ ♂ 7 ♀ ♀ not prepared.
- Typhl. 259 - PIEDMONT - Nizza Monferrato (AT) - (road to Alessandria, 2-3 Km from the city) - 31-VII-58 - H.P. *Urtica dioica*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 273 - LIGURIA - Sanremo (IM) - 18-X-58 - Locality Brezza - (hills East of Sanremo) - H.P. *Parietaria officinalis* (N.B.: in the above mentioned locality there are no nettles): 3 ♂ ♂ 7 ♀ ♀ in a plastic tube.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Parietaria officinalis*: !! 3 ♂ ♂ 3 ♀ ♀ dry. (N.B.: the 2 host plant groups (*P. officinalis* and *Lamium maculatum*, editor's note) were very mixed, and the individuals of 2 mentioned species (*E. urticae* and *E. stachydearum*, editor's note)

were collected one by one on the lower leaf page of both plant species.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - 12-IX-59 - m 1,120 - (Locality between Ruinaux and Fénille) - H.P.

Urtica dioica: !! 3♂ ♂ 2♀ ♀ not prepared.

Typhl. 289 - LIGURIA - Colle di Melogno (SV) - m 1,028 - 21-IX-59 - H.P. *Urtica dioica*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 315 - CALABRIA - Sila Piccola - Lorica near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Urtica dioica* (in the shadow of alders), behind the house: 6♂ ♂ 4♀ ♀ dry (10♂ ♂ 12♀ ♀ not prepared).

Typhl. 319 - SICILY - Catania - (road to Etna) - 10-VII-61 - Gully in the shade of big chestnuts, m 1,000 ~ (above Nicolosi, m 698) - H.P. *Urtica dioica*: ! 5♂ ♂ 7♀ ♀ dry - Aedeagus with very long and straight filiform processes!!

Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - H.P. *Urtica dioica*: ! 1♀ dry.

Typhl. 326 - SARDINIA - S. Gregorio (CA) - (road to Muravera) - 12-VIII-61 - (Private holding: villa with park and vegetable garden) - H.P. *Parietaria officinalis*: 1♂ 3♀ ♀ dry (very small specimens: ♂ length mm 2.3; ♀ ♀ 2.5 mm - ♂ with processes of the aedeagus slightly different from the typical ones).

Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small fountain - 16-VIII-61 - H.P. *Urtica dioica* and *Parietaria officinalis*: ! 2♂ ♂ 7♀ ♀ dry.

Typhl. 346 - PIEDMONT - Caluso (TO) - (Briamara) - Hedge along the Canal, near Scapino's orchard - 23-IX-61 - H.P. *Urtica dioica*: 1♂ 8♀ ♀ not prepared.

Typhl. 347 - PIEDMONT - Locana (TO) - (Orco Valley) - m 613 - 27-IX-61 - H.P. *Urtica dioica* (arid locality): ! 3♂ ♂ not prepared.

Typhl. 348 - PIEDMONT - Valprato Soana (TO) - m 1,113 - 27-IX-61 - H.P. *Urtica dioica*: ! 2♂ ♂ 6♀ ♀ not prepared.

Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Urtica dioica*: 2♂ ♂ 4♀ ♀ not prepared.

Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Parietaria judaica* (according to Dalla Fior), *P. diffusa* (according to Marchesetti) - ?*urticae* or *calcarata*: 2♀ ♀ dry.

Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - Near the tunnel of Quassolo - 13-X-61 - H.P. *Parietaria officinalis* (I collected by night) - ?*urticae* or *calcarata*: 4♀ ♀ dry.

Typhl. 386 - SICILY - Agrigento - Porto Empedocle - (Farm, before reaching Realmonte) - m 70 - 16-IV-62 - H.P. *Parietaria officinalis* (near water tank): ! 3♂ ♂ 9♀ ♀ dry.

Typhl. 389 - SICILY - Palermo - (Botanical gardens) - 17-IV-62 - H.P. *Parietaria officinalis* (mixed with Labiatae: *Meriandra bengalensis*, editor's note): 3♂ ♂ 8♀ ♀ dry.

Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Urtica dioica*: 2♂ ♂ 5♀ ♀ dry (+ puparium of pipunculid).

Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - H.P. *Urtica dioica*: 1♂ 5♀ ♀ dry.

- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Urtica dioica*: 4♂♂ 4♀♀ dry.
- Typhl. 411 - SARDINIA - Tempio Pausania (OT) - (Fonti di Rinaggiu) - 15-VIII-62 - H.P. *Urtica dioica*: 4♂♂ 5♀♀ dry.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Mentha longifolia*, *M. rotundifolia* (in a stream): 1♂ dry (coming from nettles: Windy day!).
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Urtica dioica*: 1♂ 3♀♀ dry - H.P. *Parietaria officinalis*: 3♀♀ dry.
- Typhl. 433 - TUSCANY - Elba Island - Rio Marina (LI) - 21-IX-62 - H.P. *Urtica dioica*: ♂♂ ♀♀ not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Mentha ?rotundifolia* (North-East of a farmhouse): 1♂ not prepared.
- Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge on the road Sassari-Alghero) - 27-V-64 - H.P. *Urtica dioica* (under *Salix alba* and a *Rubus* hedge): 3♂♂ 12♀♀ dry.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - 28-V-64 - (South of the hotel Mirafiori) - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea*, *Q. ilex* (bushes) - (Wind!): 1♀ not prepared.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Geranium lucidum*, !*Lamium garganicum corsicum*!! (in pseudofoiba): 8♂♂ 6♀♀ dry - There are no nettles in this biotope.
- Typhl. 491 - SARDINIA - Desulo (NU) - m 900 - 31-V-64 - H.P. *Urtica dioica*: 1♂ 4♀♀ dry - road Desulo-Fonni (NU) - m 1,000 - (Small humid valleys, with tall *Ilex aquifolium*) - H.P. *Urtica dioica*: 4♂♂ 2♀♀ dry.
- Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (Park of the Institute) - 11-VII-64 - H.P. *Urtica dioica*: 1♂ 10♀♀ dry.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Urtica dioica* (under *Rosa montana*): 11♂♂ 4♀♀ dry.
- Typhl. 515 - TUSCANY - Pianosinatico - Cutigliano (PT) - m 800-900 - 18-VIII-64 - H.P. *Urtica dioica*: juveniles and adults not prepared.
- Typhl. 516 - TUSCANY - Abetone (PT) - m 1,200 - 18-VIII-64 - (Beechwood of the Tuscan slope) - H.P. *Urtica dioica* (juveniles and adults): 2♂♂ 2♀♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Urtica dioica*: 1♂ 1♀ dry.
- Typhl. 527 - JUGOSLAVIJA - Obravac - (On the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Urtica dioica*, *Mentha rotundifolia*, *Melissa* spp., *Marrubium*, *Ballota nigra*: ♂♂ ♀♀ not prepared.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,350 - Locality near Njeguši. - On the road Kotor-Cetinje - 7-IX-64 - H.P. *Urtica dioica* and *Ballota nigra*:

5♂♂ 10♀♀ dry.

Typhl. 533 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 17-X-64 - H.P. *Parietaria officinalis*: ! 3♂♂ 7♀♀ dry.

Typhl. 566 - JUGOSLAVIJA - Kutina (Hrvatska, 70 Km from Zagreb) - Locality 12-15 Km from Kutina at the height of m 250 ~. Along villages and country roads. Very humid environment - 1-IX-66 - H.P. *Urtica dioica*: ♂♂ ♀♀ not prepared.

Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000~ - 2-IX-66 - (Clearings in the middle of Beeches and Conifers, in relatively humid zones) - H.P. *Urtica dioica*: 1♂ dry (in another nettle bush).

Typhl. 578 - LATIUM - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter reference no. 1,102 of 25-VI-74 - Isola S. Stefano - 5-IV-66: 4♂♂ 6♀♀.

Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Sorso (SS) - 6-VII-76: 1♀.

Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - H.P. *Urtica dioica*: 1♂ 3♀♀ dry.

Typhl. 912 - PORTUGAL - Oporto - (Park Boega Hotel) - 11-VI-88 - H.P. *Malva* and *Urtica* (behind a big vase): 1♂ dry - H.P. *Parietaria officinalis*: 5♂♂ 13♀♀ dry.

Typhl. 950 - LOMBARDY - Tremezzo (CO) - (Parco Palace Hotel) - 20-VIII-88 - H.P. *Urtica dioica*: 3♂♂ 3♀♀ not prepared.

EUPTERYX vittata (Linnaeus, 1758)

Typhl. 31 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-IX-56 - H.P. *Glechoma hederacea*: presence of adults and juveniles of all instars on the lower leaf page. The attacked leaves, generally host not more than 1-2 insects (adults or juveniles); they can be immediately recognized by the light spots (depigmented areas) on the upper page. I collected adults also on 3-X-55, while I saw feeding neanids and nymphs in April-May 1956. In alcohol neanids and nymphs of all instars and 3 adults.

Typhl. 43 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 8-X-56 - H.P. *Mentha piperita*: 2♀♀ dry - H.P. *Valeriana officinalis*: 1♀ dry - The above mentioned valeriana hosts exclusively this leafhopper (juveniles and adults) and has the leaves with vast depigmented areas.

Typhl. 102 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-V-57 - H.P. ...(Compositae): 1♀ dry.

Typhl. 109 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 8-VI-57 - H.P. *Glechoma hederacea*, *Prunella vulgaris*, *Ranunculus repens*, *Chrysanthemum leucanthemum*, *Valeriana officinalis* (Institute's arboretum) - 8 individuals: 5♂♂ dry (phot. 4,016: tegmen and wing prepared in a glass slide), 3♀♀ dry (1 phot. 4,015) - Presence of many adults and last instar nymphs - phot. 4,014: *Glechoma* leaf with depigmented areas.

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Prunella vulgaris*, *Plantago major* (depigmented leaves): ♂♂ ♀♀ not prepared.

- Typhl. 200 - PIEDMONT - Barone Canavese (TO) - (Humid ditch along Bianco Pietro's field) - 28-IX-57 - H.P. *Glechoma hederacea*, *Ranunculus* sp., *Spiraea ulmaria*: 5♂♂ 1♀ dry (2♂♂ are parasitized by *Aphelopus*).
- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 12-X-57 - H.P. *Glechoma hederacea*, *Ajuga reptans*: 4♂♂ 1♀ dry.
- Typhl. 357 - FRIULI- VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Ajuga reptans* and *Glechoma hederacea*: 1♂ not prepared.
- Typhl. 567 - JUGOSLAVIJA - Slijeme (Zagreb) - m 1,000~ - 2-IX-66 - (Clearings in the middle of beeches and conifers, in relatively humid zones) - H.P. *Glechoma hederacea*, *Veronica urticifolia*: 5♂♂ 4♀♀ dry (and nymphs).

EUPTERYX zelleri (Kirschbaum, 1868)

- Typhl. 40 - PIEDMONT - Susa (TO) - (road to Cesana, in an arid place) - 3-X-56 - H.P. *Satureja calamintha*: 3♂♂ 1♀ dry, 3♂♂ 1♀ in alcohol, 2 5th instar nymphs in alcohol.
- Typhl. 55 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Mentha piperita* - Forma typica: 1♂ dry.
- Typhl. 90 - PIEDMONT - Bussoleno (TO) - (Military road) - 9-V-57 - H.P. ?*Satureja vulgaris* or *Clinopodium*: 14 individuals (8♂♂ 6♀♀) of which: 3♂♂ 6♀♀ forma typica (1♂ 2♀♀ dry - 2♂♂ 4♀♀ in alcohol), 5♂♂ var *decussata* Ribaut (3 dry, 2 in alcohol) - There were still several 5th and maybe also 4th instar nymphs on the lower leaf page of the host plant - The leaves show obvious depigmented areas.
- Typhl. 97 - PIEDMONT - (Cfr. Typhl. 103) - Bussoleno-S. Giorio (TO) - 23-V-57 - H.P. ?*Satureja vulgaris* (Cfr. Typhl. 90) - Forma typica 13 individuals, of which: 9♀♀ (1 phot. 3,946 dry, 3 dry, 4 in alcohol, 1 phot. 3,948 wings in a glass slide), 4♂♂ in alcohol - var *decussata*: 1♂ dry phot. 3,947 - There are still the very last nymphs of the last instar on the lower leaf page of *Satureja*.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (Gargano) (FG) - (Near the convent) - 5-VI-57 - m 600 - H.P. *Mentha longifolia* v *viridis* (Pension Longo) - Forma typica: 6♀♀ dry, var *decussata*: 1♂ dry.
- Typhl. 124 - PIEDMONT - S. Giorio-Bussoleno (TO) - 5-VII-57 - H.P. *Satureja*?: presence of several adults and juveniles not prepared.
- Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Mentha longifolia* v *viridis*: 1♀ not prepared.
- Typhl. 146 - APULIA - Gargano - Umbra Forest (FG) - m 800 - 22-VII-57 - H.P. *Mentha longifolia* v *mollissima*: presence of several adults (2♂♂ 2♀♀ dry) - 23-VII: 1 dipteran larva (?pipunculid) emerged from 1♀ through the 2nd and 3rd apparent urotergum - 30-VII: I saw another pipunculid larve emerge. The leafhopper has been showing the presence of the larva in its body since 23-VII, when I anesthetized it and its abdomen moved (contracted) in a characteristical way - 8-VIII: a pipunculid emerged from the puparium of 23-VII (in alcohol with its puparium and the 2 *Eu-*

pteryx zelleri victims) - 13-VIII: the second pipunculid emerged not too ruined, together with its puparium, in a separate tube.

Typhl. 157 - PIEDMONT - S. Giorio-Bussoleno (TO) - (Susa Valley) - 6-VIII-57 - H.P. *Satureja* sp., *Origanum vulgare*: presence of adults, 2 ♀ ♀ dry - Leaves of the H.P. very depigmented.

Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - 17-VI-II-57 - H.P. *Satureja montana* (near *Inula viscosa*) - Forma typica: 2 ♂ ♂ 2 ♀ ♀ dry - H.P. *Helichrysum italicum*: 1 ♀ not prepared (probably arrived from *Satureja montana* plants) - H.P. *Thymus vulgaris* (halfway of the crossroad Deiva-Baracca): 2 ♀ ♀ not prepared - H.P. *Lavandula stoechas*: some adults not prepared.

Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - 17-VIII-57 - (Along the stream North-East of the village) - H.P. *Satureja calamintha* v *vulgaris*: several adults not prepared.

Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Calamintha nepeta*: ♂ ♂ ♀ ♀ not prepared - H.P. *Mentha sylvestris*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 173 - LATIUM - Formia (LT) - (Hotel in front of the station) - 2-IX-57 - H.P. *Satureja calamintha* v *vulgaris* (arid environment): presence of several adults not prepared.

Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Satureja calamintha*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - 8-IX-57 - H.P. *Satureja calamintha* v *vulgaris* (very depigmented leaves): presence of plenty adults, 2 ♂ ♂ 2 ♀ ♀ dry - 4 adults abandoned by pipunculid larvae in alcohol - 6 oophagous mymarids in another glass tube - 13-IX-57: 4 puparia of pipunculids reared from 8 to 12-IX, reared - 1-X-57: one pipunculid emerged (*Aphelopus atratus* Dalman, det. Olmi 1980) dry - 2-X-57: 1 pipunculid emerged, in alcohol.

Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - H.P. *Mentha longifolia*, *Satureja calamintha* v *vulgaris*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Satureja calamintha* v *vulgaris*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo, strada Valpiana 31) - 14-X-57 - H.P. *Satureja calamintha* v *vulgaris*: 23 ♂ ♂ 25 ♀ ♀ in a plastic tube.

Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. *Satureja vulgaris*: 7 ♂ ♂ (4 parasitized by *Aphelopus*), 16 ♀ ♀ (13 parasitized by *Aphelopus*) in alcohol.

Typhl. 262 - PIEDMONT - Turin - Mirafiori (Centro Meccanico Agricolo) - 9-VIII-58 - H.P. *Satureja calamintha*: many ♂ ♂ ♀ ♀ adults not prepared.

Typhl. 274 - PIEDMONT - Salabertano-Exilles (TO) - (Dora Riparia Valley) - m 1,000 - 22-X-58 - H.P. *Mentha longifolia*: 1 ♀ not prepared.

Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Noasca-Ceresole (TO) - (Orco Valley) - (Curves) - m 1,200-1,300 - 9-IX-59 - H.P. *Satureja*: ♂ ♂ ♀ ♀ not prepared.

- Typhl. 289 - LIGURIA - Finale Ligure (SV) - (road of Colle di Melogno) - m 600 - 21-IX-59 - H.P. *Satureja calamintha* (in the field): plenty ♂♂ ♀♀ not prepared.
- Typhl. 313 - PIEDMONT - Dam of Mélezet (TO) - (Above Bardonecchia) - (Valle Stretta) - m 1,400 - 16-VI-61 - H.P. *Satureja* ?*calamintha*: 2♂♂ 1♀ not prepared.
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica (CS) near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) - m 1,400 - 8/9-VII-61 - H.P. *Mentha longifolia* (ditch with water): 2♂♂ 7♀♀ not prepared.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (Military road) - 27-VIII-61 - H.P. *Satureja*: 2♂♂ 5♀♀ not prepared (1♀ parasitized by *Aphelopus*).
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Satureja*: 6♂♂ 4♀♀ not prepared.
- Typhl. 343 - AOSTA VALLEY - Gran Paradiso National Park - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 19-IX-61 - H.P. *Nepeta nepetella*, *Satureja*, *Thymus*: ? 2♂♂ 2♀♀ dry.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Satureja calamintha* v ...: 6♂♂ 3♀♀ dry.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - (River Mulinello - Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Satureja calamintha* v *nepeta*: 10♂♂ 10♀♀ dry - H.P. *Satureja calamintha* v *micrantha*!: 7♂♂ 5♀♀ dry.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. *Mentha rotundifolia*, *M. longifolia* (hollow with water stagnation): 2♀♀ not prepared - H.P. *Satureja calamintha* v *nepeta*: 3♂♂ 4♀♀ not prepared.
- Typhl. 392 - SICILY - Piana degli Albanesi (PA) - 17-IV-62 - H.P. *Satureja calamintha* v *nepeta*: 2♂♂ dry + nymphs.
- Typhl. 394 - SICILY - Monreale (PA) - 18-IV-62 - H.P. *Mentha rotundifolia*, *Satureja calamintha* v *nepeta*: 2♀♀ not prepared.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Mentha pulegium*!, *Mentha aquatica*! (det. Ariello): ! 1♂ 2♀♀ not prepared.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi), near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Satureja nepeta* (white flowers) - Det. Ariello by comparison (big bushes, slope of Oliena, m 1,250): 1♀ dry.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Satureja vulgaris*: ♂♂ ♀♀ not prepared.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Satureja calamintha*!: 3♂♂ 3♀♀ dry + juveniles - H.P. *Mentha longifolia*, *Mentha rotundifolia* (in a stream): 1♂ dry.
- Typhl. 420 - LIGURIA - Passo di Tegliia (IM) - m 1,387! - 14-IX-62 - H.P. *Satureja calamintha* v *nepeta* (det. Ariello). Very depigmented leaves; but I did not collect the leafhopper that should be *E. zelleri* - (Cfr. Typhl. 452!!).
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Thymus vulgaris*: 1♂ dry.
- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi, road Borghetto S. Spirito - Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - H.P. *Satureja nepeta*: ♂♂ ♀♀

not prepared + juveniles.

- Typhl. 453 - FRANCE - Frontignan (Herauld) - (Broadleaf thicket) - 5-V-63 - H.P. *Satureja vulgaris*: ♂ ♂ ♀ ♀ of which 1 ♂ dry.
- Typhl. 462 - LIGURIA - Passo di Tegli (IM) - (Pylon) - m 1,400 - 15-VIII-63 - H.P. *Satureja calamintha* v *nepeta* - (Cfr. Typhl. 420): 2 ♂ ♂ 3 ♀ ♀ dry (on all very depigmented plants).
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Mentha ?rotundifolia* (North-East of a farmhouse): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 477 - UMBRIA - Spello (PG) - 22-IX-63 - H.P. *Satureja calamintha* v *nepeta* (arid environment, in the sun, outside the village, on the right of the road to Assisi): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Mentha aquatica* (ditch), *Satureja calamintha* v *nepeta*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Mentha aquatica*, *M. longifolia*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - (Day of strong wind) - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - Northwards and at the base of rocks sheltering more or less the vegetation beneath: 3 ♂ ♂ 1 ♀ not prepared (coming from nearby *Origanum* and *Satureja*).
- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. ?*Satureja* sp.: 2 ♂ ♂ 3 ♀ ♀ dry (to Papevic) - ("Undetermined occasional plant").
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - H.P. *Satureja calamintha*, *Mentha aquatica*: 1 ♂ 1 ♀ dry (+ *Dikraneura mollicula*!).
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Pulicaria disenterica* (with very depigmented leaves, under tall *Populus nigra*): ? 1 ♂ dry, specimen coming from nearby *Satureja* and *Mentha*, with processes of the aedeagus directed upwards. **Sketch.**
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Mentha longifolia* v *mollissima*: 2 ♂ ♂ 1 ♀ dry.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - (*Quercus ?pubescens*) - H.P. *Origanum vulgare*: 1 ♂ 1 ♀ dry - H.P. *Satureja calamintha* v *nepeta*: 5 ♂ ♂ 4 ♀ ♀ dry.
- Typhl. 539 - PIEDMONT - Vinadio (CN) - m 950 ~ - 29-X-64 - H.P. *Satureja calamintha* v ...: 4 ♀ ♀ dry.
- Typhl. 544 - PIEDMONT - Sestriere (TO) - (Slope of Cesana) - 19-VIII-66 - m 1,900 - H.P. ?*Nepeta cataria*: 1 ♀ dry.
- Typhl. 594 - PIEDMONT - Roddino (CN) - m 610 - 31-VIII-80 - H.P. *Mentha rotundifolia*: 1 ♂ 1 ♀ dry.

- Typhl. 726 bis - EMILIA-ROMAGNA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Casola Valsenio (RA) - 27-VII-84: 1♂ 1♀.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Cava Carosello (CT) - 2-VII-79: 2♀♀.
- Typhl. 800 - SICILY - Augusta (SR) - (Bridge near the river...) - (Between the river Cantera and the river Mulinello: fenced) - 28-VIII-85 - h 18.30-20.00 - H.P. *Mentha rotundifolia*, *M. longifolia*: 1♂ 1♀ dry.
- Typhl. 950 - LOMBARDY - Tremezzo (CO) - (Parco Palace Hotel) - 20-VIII-88 - H.P. *Satureja calamintha*: 3♂♂ 5♀♀ not prepared.

Box 39

GENUS *AGURIAHANA* Distant, 1918*AGURIAHANA stellulata* (Burmeister, 1841)

- Typhl. 638 bis - PIEDMONT - Turin - (Parco Pellerina) - 12-VI-82 - Leg. student Zanusso - H.P. *Prunus pissardi*: !!! 1♂ dry - (Cfr. Typhl. 692).
- Typhl. 658 - PIEDMONT - Turin - (Valentino Park) - 12-VIII-83 - H.P. *Betula medwediewi* (ornamental, near *Quercus sessiliflora*) - (Depigmented leaves and exuviae): !!! 2♀♀ dry - H.P. *Tilia* sp. - I searched a lot *A. stellulata*, but in vain.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - (railing towards the Medieval castle) - 16-VIII-83 - H.P. *Betula verrucosa* - (Cfr. Typhl. 658): ! 2♀♀ dry - phot. (...): 1♀.
- Typhl. 685 - PIEDMONT - Turin - (Valentino Park) - 22-VI-84 - H.P. *Betula verrucosa* (rearings: Demichelis): nymphs: adults emerged, not prepared.
- Typhl. 691 - PIEDMONT - Turin - (Piazza De Amicis, corner Corso Dante) - 1-VII-84 - H.P. *Betula verrucosa*: 5th instar nymphs + ♂♂ ♀♀ not prepared.
- Typhl. 692 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 5-VII-84 - Leg. dr Alma - H.P. *Prunus cerasus*: !!! 5th instar nymphs + ♂♂ ♀♀ relatively abundant (5 nymphs) - (Cfr. Typhl. 638 bis).
- Typhl. 693 - PIEDMONT - Candia Canavese (TO) - 5-VII-84 - Leg. dr Alma - H.P. *Prunus cerasus*: !! 1 5th instar nymph from which 1 adult emerged.
- Typhl. 694 - PIEDMONT - Turin - (Istituto Massimo d'Azeglio) - 6-VII-84 - H.P. *Prunus avium* (in Corso Massimo d'Azeglio): missing! - H.P. *Betula verrucosa* (garden): missing!
- Typhl. 698 - PIEDMONT - Gassino Torinese (TO) - 8-VII-84 - Leg. Santoro - H.P. *Prunus cerasus*: 2♂♂ 6♀♀ dry + late nymphs - Leaves more attacked on the low part of the canopy: depigmented and with series of exuviae of different instars (on the lower page) - phot. (...) depigmented leaves.
- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Betula pendula*: 3♂♂ 3♀♀ dry (end of the emergences of the 1st generation).
- Typhl. 719 - GERMANY - Hamburg (W Germany) - Park "Planten un Blomen" - 24-VI-

II-84 - (XII International Congress of Entomology) - Leg. Vidano and Arzone - H.P. *Betula ermanii* Cham.: Asia and Japan (data on the label) - Isolated plant in a lawn: 5 ♀ ♀ dry - intense dechlorophyllations, with nymphal exuviae - H.P. *Tilia intermedia*: cultivar (data on the label), leaves covered with honeydew (*E. tiliae*) and sooty moulds: 2 ♀ ♀ dry (seen several individuals).

Typhl. 765 - PIEDMONT - Turin - (Valentino Park) - 29-VI-85 - Leg. Vidano and Arzone - H.P. *Betula medwediewi*: 2 5th instar exuviae. (Cfr. Typhl. 699 bis) - Giardini Reali - leg. Arnò - H.P. *Acer pseudoplatanus*, *Prunus pissardi*: ♂ ♂ ♀ ♀ not prepared - phot. from 1st to 5th instar exuviae and depigmentations.

Typhl. 769 bis - PIEDMONT - Turin - (Valentino Park) - 8-VII-85 - H.P. *Betula medwediewi*: (phot. leaf with 5 exuviae - Cfr. Typhl. 765).

GENUS WAGNERIPTERYX Dlabola, 1958

WAGNERIPTERYX germari (Zetterstedt, 1840)

Typhl. 166 bis - AUSTRIA - Kleiner Ötscher - (northern Alps) - m 1,500 - 5-VIII-57 - Leg. Novitzky - H.P. *Pinus pumilio* - (as *Eupteryx*): 21 ♂ ♂ 11 ♀ ♀ + 2 nymphs dry.

Typhl. 253 - PIEDMONT - Colle del Lys (TO) - m 1,300 - 15-VII-58 - H.P. *Pinus sylvestris*, *P. nigra*, *P. mugo* - (as *Eupteryx*): !!! 13 ♂ ♂ (3 dry, 5 in alcohol, 5 in a plastic tube), 18 ♀ ♀ (5 dry, 6 in alcohol, 7 in a plastic tube) - phot. 5,966: ♀ ; 5,967: wings.

Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Pinus sylvestris*: 3 ♀ ♀ dry.

Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Pinus sylvestris* - (as *Aguriahana*): 2 ♀ ♀ dry.

Typhl. 720 - SWITZERLAND - Davos (GR) - m 1,500 - 29-VIII-84 - H.P. *Pinus mugo* - (as *Aguriahana*): 11 ♂ ♂ 14 ♀ ♀ (3 ♂ ♂ dryinidized dry) - Very depigmented pine-needles - phot. depigmentations and adults.

Typhl. 796 - SICILY - Mount Etna (CT) - (road to Piano Provenzano from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pine wood (*Pinus laricio* Poiret) - H.P. *Pinus laricio* Poiret (known also for Calabria and Corsica) - (as *Aguriahana*): 1 ♂ 2 ♀ ♀ dry (very depigmented pine-needles).

Typhl. 797 - SICILY - Mount Etna (CT) - (Silvestri Craters) - m 1,986 - (Arrived there from Zafferana) - 2-VIII-85 - H.P. *Achillea* (white), depigmentation - Strong wind, no collecting - idem, m 1,800, crossroad (descending) to Zafferana and Nicolosi - Understorey of young *Pinus laricio* (8-10 years old) - H.P. *Pinus laricio* (very depigmented pine-needles) - (as *Aguriahana*): 2 ♀ ♀ dry.

Typhl. 872 - PIEDMONT - Upega (CN) - m 1,300 - 28-IX-86 - H.P. *Pinus sylvestris* - (as *Aguriahana*): 1 ♀ dry (presence of very depigmented needles. I saw several adults too: wind and rain prevented me from collecting).

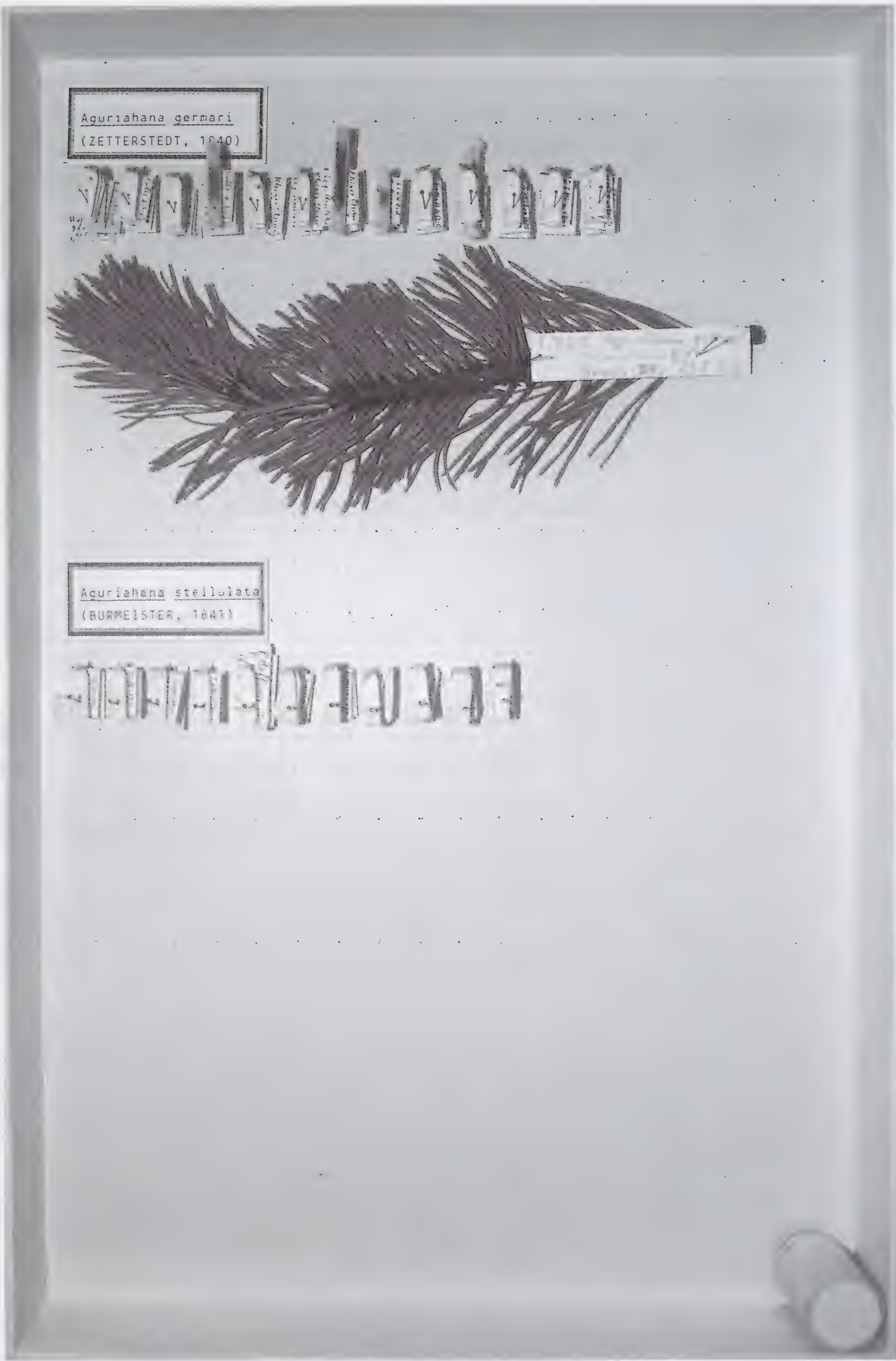


Fig. 16 - Box no. 39 - *Aguriahana* (*Wagneripteryx*) *germari* and *A. stellulata*

Box 40

GENUS *ZYGINELLA* Löw, 1885*ZYGINELLA albifrons* Horváth, 1897

Typhl. 351 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Karstic zone) - 1-X-61 - H.P. *Acer monspessulanum*: !!!? 16♂♂ (14 dry, 2 in alcohol), 8♀♀ (6 dry, 2 in alcohol) - phot. 9,294: ♀, length mm 3.0; 9,295: ♂, length mm 3.0 - Length of ♂♂♀♀ mm 2.8-3.10 (average 3 mm). It differs from *pulchra* in the colour: forebody and elytra with remarkable red-orange drawings on a creamy background (tending to yellowish and not to green); elytra with a brown spot also before and after the wax area. ♀ with the frons not crossed by a black line, but completely pale (see the description of *Z. albifrons* by Horváth 1897). The red-orange drawings appear gradually, starting from the distal part of the elytral chorium towards the head and the scutellum, towards the pronotum, towards the anterior part of the elytra. Urosterni light in the ♀, brown in the middle in the more pigmented ♂♂. 1st and 2nd apparent uroterga (besides the meso-metanotum) completely brown or in several points, both in the ♂ and in the ♀. **Drawings** of the aedeagus of *Zyginella ?albifrons* lateral and dorsal - Distal end of the styli that appear between the genital blades. In the specimens parasitized by pipunculids (2♂♂ preserved dry), the larva appears breaking the abdomen laterally - Check the description of *Zyginella graffi* Melichar 1901.

ZYGINELLA pulchra Löw, 1885

Typhl. 147 - APULIA - Gargano (FG) - (road to San Giovanni Rotondo, near the farm Carmela) - 28-VII-57 - H.P. *Pistacia terebinthus*: 2♂♂3♀♀ (phot. 4,201: ♀; 4,244: ♀ tegmen); ♂♂ with sulphur yellow abdomen; legs yellowish too; ♀♀ with a very pale green abdomen, legs whitish. In the ♂ the black oblique line of the tegmen behind the wax area connects with the costal vein and runs along it upwards in correspondance with the wax area.

Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - H.P. understorey of small oaks, among dry leaves and *Calluna vulgaris*: 1♀ dry.

Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Acer monspessulanum*: 1♂1♀ dry - phot. 9,165: ♂, length 3.45 (♀ length mm 3.50).

Typhl. 351 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Karstic zone) - 1-X-61 - H.P. *Pistacia terebinthus*: 1♀ dry forma typica.

Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Rhus cotinus* (far from the cave, in karstic areas): 6♂♂13♀♀ dry - Species present even if not always abundant on all *Rhus cotinus* bushes - Depigmented leaves - phot. 9,301: ♂, length 3.25 mm; 9,300: ♀, length 3.25 mm (phot. colour too) - ♂ with scutum-scutellum and clavus of a red-orange colour. In the dead insect such areas become brownish - (♂♂♀♀ with the 1st or 2nd or 3rd or 4th urosternum brown according to the instar).

Typhl. 380 - PIEDMONT - Moncalieri (TO) - (Park of a villa in the high part of the city)

- 28-I-62 - H.P. *Taxus baccata*: 1 ♂ 3 ♀ ♀ dry - H.P. *Hypericum calycinum*: 1 ♂ dry.
 Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 -
 H.P. *Juniperus communis*: 1 ♀ dry.
 Typhl. 422 - LIGURIA - Mount Bignone (IM) - (North slope; shaded understory, *Castanea*,
Acer) - 15-IX-62 - H.P. *Acer pseudoplatanus* (low bushes), beechwood: 1 ♂ 1 ♀ dry.
 Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte
 Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Acer monspessulanum*, *Ostrya carpinifolia*,
Quercus pubescens, *Q. aegylops*: 3 ♂ ♂ 1 ♀ dry.
 Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (near the river
 Zeta) - 7-IX-64 - H.P. *Acer campestre* (very depigmented leaves): 1 ♂ 1 ♀ dry - (newly
 emerged specimens - no *Alebra wahlbergi*).
 Typhl. 602 - PIEDMONT - Turin - (Corso Massimo d'Azeglio) - 26-XI-80 - H.P. *Platanus occidentalis*: 1 ♂ dry phot.
 Typhl. 694 - PIEDMONT - Turin - (Istituto Massimo d'Azeglio) - 6-VII-84 - H.P. *Acer palmatum*
 (Japanese): 1 ♀ not prepared, 4th and 5th instar nymphs (reared).
 Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Acer palmatum*
 (depigmented leaves): 3 ♂ ♂ 4 ♀ ♀ dry + 5th instar nymphs and exuviae, depigmented
 leaves: phot. 1 ♂ 2 ♀ ♀ - (Cfr. Typhl. 694).
 Typhl. 884 - FRANCE - Toulouse - 27-X-86 - Leg. Arzone-Alma - Public gardens - palais
 des sports - H.P. *Acer palmatum*: 2 ♂ ♂ 1 ♀ dry - H.P. *Koelreuteria paniculata* (fam.
 Sapindaceae: bladder tree): 2 ♂ ♂ dry, phot. 1 ♂.

Box 41

Tribe ERYTHRONEURINI

GENUS *ALNETOIDIA* Dlabola, 1958*ALNETOIDIA alneti* (Dalbom, 1850)

- Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-
 56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1 ♀ dry, 1 ♀ in alcohol.
 Typhl. 117 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's hedge and surroundings)
 - 22-VI-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): ! 1 ♂ 1 ♀ dry. Both adults were
 reared from as many nymphs collected in the country on 16-VI-57.
 Typhl. 118 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 22-VI-57 - H.P.
Malus communis - (as *Erythroneura*): 6 ♂ ♂ (1 dry, 5 in alcohol), 9 ♀ ♀ (3 dry,
 6 in alcohol) - One of the ♀ individuals has a supplementary transverse vein. Phot.
 4,081: ♂ dorsal. N.B.: none of the *E. alneti* individuals is parasitized by *Aphelopus*,
 while many *T. froggatti* collected on the same apple trees have been instead at-
 tacked.
 Typhl. 120 - PIEDMONT - Caluso (TO) - (road of S. Giorgio) - 27-VI-57 - (as *Erythroneura*)
 - H.P. *Alnus glutinosa*: 9 adults, 5 ♂ ♂ (1 dry, 4 in alcohol), 4 ♀ ♀ (2 dry, 2 in al-
 cohol). Adults reared on 1-VII-57 from 5th instar nymphs collected on 27-VI-57: 11
 of which 4 ♂ ♂ 7 ♀ ♀ in alcohol, in alcohol 7 nymphs (not long antennae) - H.P.
Spiraea ulmaria: 1 ♂ 3 ♀ ♀ reared from 5th instar nymphs.

- Typhl. 121 - PIEDMONT - Caluso (TO) - (Canal) - 30-VI-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*) - Adults collected: 2♂♂ 3♀♀ dry. Adults reared: 4♂♂ 3♀♀ in alcohol - in alcohol some 5th instar nymphs and some exuviae together with others of *E. tiliae* - Nymphs with short antennae - phot. 4,107: 5th instar nymphs.
- Typhl. 122 - PIEDMONT - Turin - (Botanical gardens) - 4-VII-57 - (as *Erythroneura*) - H.P. *Alnus glutinosa*: 11♂♂ 3♀♀ (2♂♂ 2♀♀ dry) - H.P. *Quercus robur*: 1♀ dry.
- Typhl. 133 - PIEDMONT - Cantoira (TO) - (Forno Alpi Graie Valley) - 10-VII-57 - H.P. *Tilia cordata* - (as *Erythroneura*): 2♂♂ 1♀ dry.
- Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, along the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 7♀♀ (3 dry), no ♂♂.
- Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal: Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 1♀ dry.
- Typhl. 143 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's alder grove) - 18-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 5♂♂ 18♀♀ not prepared.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 244 - PIEDMONT - Pino Torinese (TO) - 31-V-58 - H.P. *Acer pseudoplatanus* - (as *Erythroneura*): 2♂♂ dry reared from nymphs grown with that of *T. callosa* on the *A. pseudoplatanus*? leaves (9-VI-58) - I cannot be absolutely certain of this because some adults (I do not know if of *T. callosa* or *Er. coryli*) was on the maple leaves when I collected the material.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *Erythroneura*): 2♂♂ 4♀♀ not prepared.
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Cornus sanguinea* - (as *Erythroneura*): 2♂♂ 2♀♀ dry - Many adults and nymphs on obviously depigmented leaves.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ 23♀♀ not prepared.
- Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Campolongo (Caronno Varesino, VA) - VII-VIII/59 - VI-IX/60 - H.P. pear and apple tree: 7♂♂ 9♀♀.
- Typhl. 301 - PIEDMONT - Baldissero Canavese (TO) - (Near the serpentine promontories) - 10-V-61 - H.P. *Malus communis*: !!♂♂ ♀♀ all reared on 25-V-61 from nymphs living on the lower leaf page not prepared (Cfr. Typhl. 303).
- Typhl. 302 - PIEDMONT - Reagle (TO) - (Turin hills) - (Towards Pino, on the right of the road going upwards) - 18-V-61 - H.P. *Acer pseudoplatanus*: 4♂♂ 17♀♀ dry - Specimens found with those of *T. nigriloba*. Many of them, at the moment of collecting, had the integument very delicate and a pale coloration, so I suppose they had just moulted. In this case this species should overwinter in the egg stage. However the doubt remains that overwintering is accomplished by adults for the ratio between ♂♂:♀♀ that is presently 1:4.
- Typhl. 303 - PIEDMONT - Turin - (Botanical gardens) - 23-V-61 - H.P. *Corylus avellana*: 6♂♂ 19♀♀ dry - I collected only adults, but on the lower leaf page there are many nymphs. The ratio (Cfr. Typhl. 302) between ♂♂:♀♀ = 1:3 induces me

to suppose that this species overwinters in the adult stage; on the other hand many adults have the integument poorly strengthened and seem to have emerged recently. Moreover, on the same hazelnuts no other Typhlocybae species were collected, that (in particular the *Edwardsiana*) are already in the adult stage (see Typhl. 301 and 304 too) - H.P. *Acer creticum*: (young plant with leaves more similar in thickness and shape to those of *A. campestre* than to those of *A. pseudoplatanus*): 4♂♂ 1♀ on depigmented leaves with exuviae! - H.P. *Acer rubrum*: !!! 6♂♂ 23♀♀ (6♂♂ and some ♀♀ dry) - Some ♂♂ and many ♀♀ were reared from nymphs. This species should then overwinter in the egg stage!!! **Sketch** egg.

Typhl. 304 - PIEDMONT - Arignano (TO) - (Turin hills) - 23-V-61 - H.P. *Acer pseudoplatanus* (big and very depigmented leaves with several last instar nymphs on the lower page, material collected by Mr Couvert) - 27-V-61 - In these 4 days several adults have been reared, all of *A. alneti* Dahlbom - !!not prepared - This species overwinters therefore in the egg stage.

Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus*: 3♂♂ 9♀♀ dry.

Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Alnus glutinosa* (occasional plant, day of strong wind): 3♂♂ 3♀♀ dry.

Typhl. 409 - SARDINIA - Arzachena (OT) - m 80 - 15-VIII-62 - H.P. *Alnus glutinosa* (on the left of the road Palau-Olbia, before Arzachena). Big trees before a ditch with water stagnating. Leaves of the canopy thick near the trunk, at 1-2 m from the ground, very depigmented and with exuviae of 5th instar nymphs still fixed: 25♀♀ (6 dry) no ♂♂ - For the determination refer to the 3♂♂ collected on *Alnus* at the Arcu Correboi pass (NU) - (Cfr. Typhl. 404).

Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana*: !! 1♂ 1♀ not prepared.

Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI) - 20-IX-62 - (Gully, near Ponti) - H.P. *Alnus glutinosa*: ♂♂ ♀♀ not prepared.

Typhl. 492 - SARDINIA - Fonni (NU) - (Bridge R. Ilodei, road Fonni-Mamoiada) - m 1,000 - 31-V-64 - H.P. *Alnus glutinosa*: 1♂ 2♀♀ dry (adults reared on 7/11-VI-64 from yellow 5th instar nymphs collected on 31-V-64. Prepared dry on 9-VI-64). On the collecting day there were many 3rd-5th instar nymphs; there were no adults yet.

Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Quercus pedunculata*: 2♂♂ dry - H.P. *Crataegus monogyna*: 1♂ 3♀♀ dry - H.P. *Sorbus aria*: 2♂♂ 1♀ not prepared.

Typhl. 498 - GREAT BRITAIN - Surrey - Juniper Hall (Park of the Institute) - 11-VII-64 - H.P. *Tilia europaea*: 1♂ 2♀♀ not prepared.

Typhl. 499 - GREAT BRITAIN - Hampshire - Brockenhurst - (Wood and relative clearings at 1-2 Km from the railway station) - 12-VII-64 - H.P. *Alnus glutinosa*: 6♂♂ 10♀♀ dry - H.P. *Betula alba*: 1♂ not prepared.

Typhl. 500 - GREAT BRITAIN - Brockenhurst - Hampshire - New Forest - 12-VII-64 - H.P. *Betula alba*: 1♂ not prepared - H.P. *Prunus spinosa*: 4♂♂ 12♀♀ dry [no specimens of other species (besides *Typhlocyba quercus*, editor's note) despite the proximity of *Salix*, *Betula*, *Quercus*, *Fagus*, etc. and in spite of the strong wind] -

- H.P. *Quercus pedunculata*: 1♂ 1♀ not prepared.
- Typhl. 501 - GREAT BRITAIN - London - Hyde Park - 15-VII-64 - H.P. *Tilia europaea*: 2♂♂ 5♀♀ dry.
- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Betula alba* (near *Salix caprea*, *Corylus*, *Fagus*, etc.): ? 1♀ dry.
- Typhl. 505 - LIGURIA - Bardineto (SV) - m 700 - 6-VIII-64 - H.P. *Rubus idaeus* (cultivated): 1♀ dry.
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Corylus avellana*: 1♂ dry.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 29-VIII-77: 1♂ - 8-VIII-77: 1♂ - 11-VII-77: 1♀ - Delia Nova (SS) - 31-VIII-75: 1♂ (without wings).
- Typhl. 583 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 3-VII-78 - H.P. *Alnus incana*: 2♂♂ dry.
- Typhl. 598 - PIEDMONT - Forno di Coazze (TO) - m 950 - 14-IX-80 - H.P. *Acer pseudo-platanus*: 1♂ 7♀♀ dry (2♀♀ pipunculidized) - Probably coming from nearby *Alnus* - H.P. *Alnus glutinosa*: 1♀ not prepared - H.P. *Corylus avellana*: 3♀♀ not prepared.
- Typhl. 615 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 9-VIII-81 - Storm! - H.P. *Alnus glutinosa*: 1♀. Phot. (...) Wild 20x, length mm 3.8.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* (on the stream bed where *Salix* and *Populus* thrive, but *Quercus* is missing): 10♀♀ dry.
- Typhl. 624 - PIEDMONT - Rosone Canavese (TO) - Orco Valley - 23-VIII-81 - H.P. *Alnus glutinosa*: 1♂ dry. Phot. (...) Wild: ♂ (very yellow), length mm 4.2.
- Typhl. 632 - FINLAND - Helsinki - 13-IX-81 - H.P. *Tilia cordata* (very depigmented leaves): 4♂♂ 4♀♀ dry - Other 32♀♀ not prepared - H.P. *Prunus cerasus* (not far from the linden mentioned above): no *A. alneti*.
- Typhl. 657 - PIEDMONT - Turin - (Valentino Park) - 8-VIII-83 - H.P. *Corylus avellana*: 1♀ not prepared.
- Typhl. 675 - PIEDMONT - Turin - (Valentino Park) - 17-V-84 - H.P. *Corylus avellana*, depigmented leaves with typhlocybine juveniles - Emergences: 31-V, 1♂ 1♀.
- Typhl. 677 - LATIUM - S. Martino al Cimino (VT) - 30-V-84 - m 700 - H.P. *Corylus avellana* (depigmented leaves, with typhlocybine juveniles - Reared, Demichelis) - Emergences 1-VI-84: 2♀♀; 5-VI-84: 3♂♂; 8-VI-84: 2♂♂.
- Typhl. 678 - PIEDMONT - Predosa (AL) - 10-VI-84 - H.P. *Corylus avellana* - Emergences 18-VI-84: 1♂ 1♀ - 19-VI-84: 1♂ 2♀♀.
- Typhl. 682 - PIEDMONT - Vistrorio (TO) - m 500 - 17-VI-84 - H.P. *Corylus avellana* - Reared, Demichelis (emergences 25-28 June 1984: 11♂♂ 10♀♀ not prepared).
- Typhl. 700 - PIEDMONT - Almese (TO) - (Susa valley) - 15-VII-84 - H.P. *Prunus avium*: 1♂ not prepared.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 1♀ not prepared.
- Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea (CN) - 29-VII-84 - Hills dominated by

- karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*, along the stream. Presence of also *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Ame-lanchier chamaedrys* - H.P. *Alnus incana* (along the river Tanaro): 1♂ 2♀ ♀ dry.
- Typhl. 714 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Corylus avellana*: 11♀ ♀ not prepared.
- Typhl. 718 - PIEDMONT - Locana-S. Giacomo - (TO) - m 1,020 - 15-VIII-84 - H.P. *Acer pseudoplatanus* - Depigmented leaves with black exuviae of 5th instar nymphs (of *Eurhadina prope loewii*, editor's note): 1♂ 1♀ dry - H.P. *Sorbus aucuparia*: 1♀ not prepared (from nymph) - H.P. *Corylus avellana*, abundant on the plot borders, meadows, mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 2♂ ♂ 8♀ ♀ not prepared.
- Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - m 1,400-1,500 - 16-IX-84 - H.P. *Acer pseudoplatanus* - Very depigmented leaves: phot.: 6♂ ♂ 12♀ ♀ not prepared (4♂ ♂ 4♀ ♀ dryinidized).
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - H.P. *Corylus avellana* (near chestnuts, beeches, willows, maples, upstream) - 1st bush: 1♂ 3♀ ♀ not prepared.
- Typhl. 736 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - Slope of the cableways, along the road - m 1,400 - H.P. *Alnus viridis* (remarkable depigmentations, bushes along the road): 1♂ 2♀ ♀ not prepared.
- Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Corylus avellana*: 2♀ ♀ not prepared.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Valcasotto (CN) - 3-VIII-81 (beechwood): 1♀ - Colle San Bernardo - (m 1,350) - 8-VIII-81: 1♂.
- Typhl. 795 - SICILY - Milo (CT) - m 740 - 1-VIII-85 - Wine farm Barone di Villagrande - H.P. grapevine cv Gargante (white) 20 ha (Nerello Mascalese D.O.C. wine): 1♀ not prepared (coming from *Corylus*).
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 7♀ ♀ not prepared.
- Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Acer pseudoplatanus*: 1♀ not prepared.
- Typhl. 911 - PORTUGAL - Amarante (Oporto) - 10-VI-88 - (Along the river) - Preparation dr Alma - H.P. *Alnus glutinosa*: 4♀ ♀ dry.
- Typhl. 969 - FRANCE - Chamonix - (Tunnel of Mount Blanc) - 20-VII-89 - H.P. *Alnus incana*: 20♂ ♂ 10♀ ♀ healthy.

BOXES 42-43

GENUS *HAUPTIDIA* Dworakowska, 1970*HAUPTIDIA distinguenda* (Kirschbaum, 1868)

- Typhl. 216 - PIEDMONT - Forno Alpi Graie (TO) - (Just outside the village, along a track directed upstream on the base of overhanging rocks, in an arid environment) - 10-X-57 - H.P. *Silene italica* (Caryophyllaceae), *Parietaria officinalis*, *Polystichum filix-mas* (leaves well depigmented) - (as *Erythroneura*) - (= *fasciaticollis* Rey according to Ribaut) - I collected 32 adults of which: 21♂♂ (7 dry, 14 in alcohol), 11♀♀ (5 dry, 6 in alcohol) - phot. 4,421: ♂ dorsal; 4,422: tegmen and wing of a ♀.
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Geranium rotundifolium* - (as *Erythroneura*): 5♂♂ 4♀♀ dry.
- Typhl. 249 - PIEDMONT - Forno Alpi Graie (TO) - 26-VI-58 - H.P. *Geranium robertianum* - (as *Erythroneura*): 2♂♂ 2♀♀ dry - 6♂♂ + 3♀♀ (just emerged and several neanids and nymphs in alcohol). This species lives exclusively on *Geranium*, visibly depigmenting its leaves. In autumn it passes onto other plants (e.g. *Silene*).
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. !!!*Solanum nigrum*, *Capsella bursa-pastoris*, *Cerastium triviale*, *Digitaria sanguinalis* (under the motorway bridge, all very depigmented) + *Chrysanthemum leucanthemum* (1♂, along a country road) - (as *Zygina*): 8♂♂ 12♀♀ dry.
- Typhl. 368 - PIEDMONT - Quassolo (TO) - Motorway Turin-Quincinetto - near the tunnel of Quassolo - 13-X-61 - H.P. *Parietaria officinalis* (I collected by night) - (as *Zygina*): 1♀ dry.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Parietaria judaica* (small tufts in cracks of the drystone wall: depigmented leaves, presence of nymphs: on 20-IV?adults) - (as *Zygina*): ! 1♂ 3♀♀ dry.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. *Parietaria judaica* (cave entrance) - (as *Zygina*): 3♀♀ dry.
- Typhl. 385 - SICILY - Agrigento - m 230 - (Near Pirandello's house) - 16-IV-62 - H.P. *Prasium majus*! (Labiateae, with many depigmented leaves) - (as *Zygina*): ! 1♂; dry only the aedeagus.
- Typhl. 398 - PIEDMONT - Novara - (Veveri) - 5-VI-62 - H.P. *Solanum nigrum* (understorey close to the canal Cavour; depigmented leaves) - (as *Zygina*): 4♂♂ dry.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Solanum nigrum* (plants in the shadow of a house - Very depigmented plants) - (as *Zygina*): 1♂ 2♀♀ dry + nymphs (besides many other Piedmontese localities recorded at that time, I found *Zygina distinguenda* Kirschbaum at Caluso too - July 1962 again on *S. nigrum* in a vineyard of Mr Rampin).
- Typhl. 419 - LIGURIA - Passo di Tegli (IM) - m 1,000 ~ - (Some Km before the pass, coming from Rezzo) - 14-IX-62 - H.P. *Teucrium scorodonia* (sheltered by rocks) -

- (as *Zygina*): adults and juveniles, 1 ♂ dry.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 ~, 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Hieracium pilosella*, *Teucrium scorodonia* - (as *Zygina*): ! 1 ♂ 1 ♀ dry.
- Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Teucrium chamaedrys* (plants with very depigmented leaves sheltered by big rocks, near the castle ruins): 4 ♂ ♂ dry.
- Typhl. 456 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 30-V-63 - H.P. *Teucrium*, *Parietaria*, *Geranium*!! - (as *Zygina*): 5 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 459 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 13-VI-63 - H.P. *Teucrium chamaedrys* - (Cfr. Typhl. 438, 456) - (as *Zygina*): 6 ♂ ♂ dry - Length of 5 specimens in a row mm 15; bigger specimens mm 3.1; smaller specimens mm 2.8.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - near the French-Italian excavations of 1947 - 21-IX-63 - (as *Zygina*) - H.P. *Hieracium* sp., *Lamium maculatum*, *Prunella vulgaris*, *Geranium* etc. (under chestnut: bushes): 1 ♂ not prepared - H.P. *Mentha ?rotundifolia* (North-East of a farmhouse): 2 ♂ ♂ not prepared.
- Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - (Day of strong wind) - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. (Northwards and at the base of rocks sheltering more or less the vegetation beneath) - (as *Zygina*): 7 ♂ ♂ 13 ♀ ♀ dry.
- Typhl. 483 bis - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - H.P. *Helianthemum fumana* (det. Ariello) between rock ravines exposed southwards - (as *Zygina*): 6 ♂ ♂ 5 ♀ ♀ dry (despite the strong wind, many leafhoppers of this species were on this plant that, because of its habitus, does not give any shelter to the insect).
- Typhl. 496 - PIEDMONT - San Giorio (TO) - 16-VI-64 - H.P. *Parietaria officinalis* v *diffusa*!, *Teucrium chamaedrys*, *Sedum album*! - (as *Zygina*): 11 ♂ ♂ 9 ♀ ♀ dry.
- Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - (Near a fountain upstream of the Sanatorium Agnelli) - 24-VII-64 - H.P. *Geranium* sp., etc. (beneath a shed) - (as *Zygina*): ♂ ♂ ♀ ♀ dry.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Galeopsis ladanum* v *orophila* (under the bridge of the tarred road) - (as *Zygina*): 4 ♂ ♂ 3 ♀ ♀ dry.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - (as *Zygina*) - H.P. *Teucrium polium*: 2 ♂ ♂ 1 ♀ dry - H.P. *Thymus serpyllum* v *chamaedrys*: 4 ♂ ♂ 1 ♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas, etc. - 4-IX-64 - H.P. *Geranium robertianum* - (as *Zygina*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 537 - PIEDMONT - Val Gesso - Valdieri (CN) - 29-X-64 - m 800 - Karstic zone - H.P. *Thymus serpyllum* v *lanuginosus*, *Thymus serpyllum* v *ovatus* under protrud-

- ing rocks, making a shelter. I collected during a shower (very depigmented leaves, even dry) - (as *Zygina*): 3♂♂ dry. A very interesting zone from a floristic viewpoint; presence of *Satureja montana* (?*communis*), *Globularia cordifolia* (v *repens*), *Rhus cotinus* - It is worthwhile collecting in May-June and in September.
- Typhl. 542 - AOSTA VALLEY - Champorcher (AO) - m 1,500 ~ - 15-VIII-66 - H.P. *Geranium*, *Stellaria*, *Leontodon*, etc. (in a rock niche) - (as *Zygina*): 8♂♂ 3♀♀ dry - Distal part of the aedeagus spatulate, slender, with subparallel sides, without the tooth - 2 sketches.
- Typhl. 556 - TRENTO-ALTO ADIGE - Pianizza di Sopra (BZ) - (Along the road Passo della Mendola-Bolzano. Zone with chestnuts) - m 500! - 22-VIII-66 - H.P. *Hieracium* spp. (under chestnuts, in a humid environment) - (as *Zygina*): 1♀ not prepared.
- Typhl. 582 - PIEMONTE - Turin - 21-VI-78 - H.P. *Ocimum basilicum* (leg. Navone): 6♂♂ 2♀♀ dry.
- Typhl. 669 - VENETIA - (Leg. dr Maurizio Paoletti) - San Stino (VE) - (Farm Sita) - 29-IX-80 - H.P. ?(soil biology) (tu 3): 2♀♀ - Caorle (VE) - (Farm Dese) - 27-IX-80 - H.P. ?(soil biology) (tu 3): 1♂.
- Typhl. 878 - APULIA - Palagianò (TA) - VI-86 - Leg. dr M. Conti - H.P. egg plant field: 1♂ 1♀ dry.
- Typhl. 967 - VENETIA - Verona - Grand Hotel - 30-VI-89 - H.P. *Verbena* (ornamental): 11♂♂ 4♀♀ dry (+ 4 nymphs of 2nd instar, 2 of 3rd instar, 3 of 4th instar, 13 of 5th instar).

HAUPTIDIA incospicua (Vidano, 1964)

- Typhl. 405 - SARDINIA - Mount Corraì (Supramonte), near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Teucrium marum* (det. Prof. Peyronel and Dal Vesco) (det. Ariello by comparison! As mostly oval tufts of remarkable sizes: 20-30 dm²), at the end of the road: m 1,230-1,250 - (as *Zygina*) *incospicua* n.sp.: 2♂♂ 3♀♀ dry - (Cfr. Typhl. 420) - Group of *Erythroneura distinguenda* + 2♂♂ 10♀♀ dry - (Cfr. Typhl. 489) (Cfr. Ribaut, 1948: *Erythroneura digitata*) - (See Zachvatkin: deux *Zyginidia* nouvelles de Turquie 1937 and *E. aridula* Linnavuori 1956) - **Drawings**: right pygofer lobe from the inner side and upper pygofer appendage; aedeagus lateral and frontal. Phot. 10,303: ♂, length mm 2.0; 10,304: ♀, length mm 2.4 - Length of the other 3 specimens: ♀ mm 2.2; ♀ mm 2.5; ♂ mm 2.3 - Light legs; pygofer lobes light proximally; sheath of the terebra ferruginous-light; male genital blades ochraceous (brown distally); elytral clavus with 2 brown longitudinal stripes.
- Typhl. 489 - SARDINIA - Mount Corraì (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Teucrium marum* - (Cfr. Typhl. 405): 2♂♂ in alcohol, 5♀♀ (2 dry, 3 in alcohol).

HAUPTIDIA lapidicola (Vidano, 1964)

- Typhl. 320 - SICILY - Catania - (Mount Etna) - (Roadman's house) - m 1,800-1,900 - 10-VII-61 - H.P. *Silene muscipula*!, *Daucus carota*!, *Hyoseris radiata*! (*Hieracium*),

Tunica saxifraga!, *Achillea moschata*! (plants sheltered by big protruding rocks), *Cerastium tomentosum* - (as *Zygina lapidicola* Vidano): 7♂♂ (2 dry, 2 in alcohol, 3 in a plastic tube), 7♀♀ (2 dry, 2 in alcohol, 3 in a plastic tube) - Length: ♂♂ mm 2.8-3.0; ♀♀ mm 2.9-3.1. Group of *Erythria distinguenda* (*fasciaticollis* Ribaut). It differs from the other species of this group (*H. incospicua*, editor's note) by having the infumate area of the clavus neatly divided longitudinally - Aedeagus with an expanded posterior lamina and with a single basal and asymmetrical process (i.e. with the apex directed left or rightwards). Phot. 9,076: ♂ dorsal; 9,077: ♀ dorsal - Length: ♂ mm 2.9, ♀ mm 3.0 - 5 **Drawings**: specimen with the process rightwards; specimen with the process leftwards - (Cfr. Typhl. 405, 438, 456, 459); aedeagus frontal; left pygofer lobe from the inner side; stylus; genital blades of the ♂ completely light. The biotope in which I saw the greatest number of *Z. aetnensis* n.sp. (a name given for the first time, editor's note) is at m 1,800 on the left of the road, 2 or 3 curves before the roadman's house. On the side of the road in a slight hollow, there are some ferns on which I found *Eupteryx filicum*, *Empoasca alsiosa* and a specimen of *Zygina provincialis* (identified by examining the genitalia, but then not preserved because identical to many specimens I found in various sites along the road before discovering *Z. aetnensis*) - 20-30 m further on, at the base of big protruding and sheltering rocks, therefore protected from bad weather (wind, rain, cold), on very depigmented plantlets of *Silene*..., umbellifers, etc. (not on *Linaria* growing in the open air and on which I found *Gymnetron* sp. galls) I found *Z. aetnensis*. If disturbed from its resting place on the leaflets of the different host plants almost lying on the ground (that are the mostly frequented ones), it hops with jumps prolonged by short flights on the very near rocks (lava), showing generally a negative phototropism. When they return peaceful, the leafhoppers probably reach gradually their host plants. Another biotope: the bridge under the same road (m 1,700 ~). Here too on *Silene muscipula*, *Achillea moschata*, *Cerastium tomentosum* I collected *Zygina provincialis* at the same time.

Typhl. 405 - SARDINIA - Mount Corrasi (Supramonte), near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Geranium rotundifolium*, *Satureja nepeta* (low and hairy) (det. Prof. Peyronel), *Prunus prostrata*, *Polystichum filix-mas* (det. Ariello by comparison!) - In the shadow, under a rock roof, almost on the top of Mount Corrasi - m 1,000-1,100 - Slope of Oliena - (as *Kropka*, formerly *Zygina aetnensis*) - (Cfr. Typhl. 320, 438, 456, 459): 3♂♂ 1♀ dry - **Drawings**: pygofer lobe, more similar to *Z. segusina* than to *Z. aetnensis*; aedeagus (anisocerate) - phot. 10,311: ♂, length mm 2.9 - Length of other specimens: ♂♂ 2.7-3.0 mm; ♀ 3.0 mm.

Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - 14-VIII-62 - m 1,300 - H.P. *Pteris aquilina* (det. Ariello by comparison) - ! (1,350 m, in the shadow of big rocks) - (as *Zygina aetnensis*): 1♀ dry.

Typhl. 420 - LIGURIA - Passo di Teglià (IM) - m 1,387 - ! 14-IX-62 - H.P. *Teucrium chamaedrys*, *Thymus vulgaris* - (as *Zygina*): ?!!! 1♀ dry. (Cfr. Typhl. 405).

Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Teucrium chamaedrys* (plants with very depigmented leaves sheltered

by big rocks, near the castle ruins) - (as *Zygina lapidicola* n.sp.): 1 ♂ dry - (Cfr. Typhl. 320, 405, 456, 459) - phot. 10,489: ♂, length mm 3.0 - *Zygina segusina* (name given for the first time) it is very similar to *Zygina aetnensis* Vidano (cfr. Typhl. 320 and 405, respectively Sicily: Etna, and Sardinia: Mount Corrasi) both concerning the drawings of the elytra and the shape of the aedeagus. In *E. segusina* the aedeagus, laminar, is much stockier and has a different profile; its single process is stronger and more bent at the apex. The upper pygofer appendages show the dorsal process with the apex directed upwards and the ventral one not dentellate but smooth, long and pointed (instead of short and rounded at the apex). **Sketches** upper pygofer appendages and pygofer lobe.

Typhl. 456 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 30-V-63 - H.P. *Teucrium chamaedrys*, *Parietaria ?judaica*, *Stellaria media*, *Geranium rotundifolium*, *Camphorosma (Trigonella) monspeliaca* (plants sheltered by big rocks near the castle ruins) - (as *Zygina*) - (Cfr. Typhl. 438, 459, 496): 7 ♂ ♂ (4 dry, 3 in alcohol), 1 ♀ in alcohol + nymphs (the ♀ and 2 ♂ ♂ were reared from nymphs collected on *Medicago*) - Length of ♂ ♂ mm 3.0-3.2 - Chiappini M., *Polygonum aviculare* etc. Archiv. Botan. e Biog. Ital. XXXVIII / IV, Forlì 1968, pp. 250-254 - **Drawings** of the aedeagus.

Typhl. 459 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 13-VI-63 - H.P. *Teucrium chamaedrys* - (Cfr. Typhl. 438, 456) - (as *Zygina segusina* Vidano): 1 ♂ dry - Length mm 2.8.

Typhl. 495 - SICILY - (Determination of 10-VI-64) - Typhlocybae of the Istituto Nazionale di Entomologia in Rome collected by Hartig in autumn 1948 in Sicily; Etna, South slope, Piano della Lepre, m 1,900 - 8-IX-48 - H.P. *Achillea ligustica* (*Erythroneura* sp. ♀, Wagner det. 1949) - (as *Zygina*): 1 ♀.

Typhl. 496 - PIEDMONT - San Giorio (TO) - 16-VI-64 - H.P. *Ononis minutissima*!, *Potentilla verna*, *Asperula cynanchica*!, *Teucrium chamaedrys* (Gramineae) - (as *Zygina*): 7 ♂ ♂ dry - (Cfr. Typhl. 438, 456, 459).

Typhl. 537 - PIEDMONT - Val Gesso - Valdieri (CN) - 29-X-64 - m 800 - Karstic zone - H.P. *Thymus serpyllum* v *lanuginosus*, *Thymus serpyllum* v *ovatus* under protruding sheltering rocks. I collected during a shower (very depigmented leaves, even dry) - (as *Zygina*): 3 ♂ ♂ 7 ♀ ♀ dry.

Typhl. 797 - SICILY - Mount Etna (CT) - (Silvestri Craters) - m 1,986 - (Arrived there from Zafferana) - 2-VIII-85 - H.P. *Achillea* (white), depigmentation-strong wind, no collecting - idem, m 1,800, crossroad (descending) to Zafferana and Nicolosi - Understorey of young *Pinus laricio* (8-10 years old) - H.P. *Silene muscipula*, *Tanacetum siculum*, *Achillea moschata*, etc. - (as *Kropka*): 2 ♂ ♂ dry.

Typhl. 918 - AOSTA VALLEY - Mandolla - Nus (AO) - m 700 - 30-VI-88 - (Det. dr Alma) - H.P. *Thymus vulgaris* (on an escarpment) - (as *Kropka*): ! 1 ♂ dry.

HAUPTIDIA maroccana (Melichar, 1907)

Typhl. 912 - PORTUGAL - Oporto - (Park Boega Hotel) - (Preparation dr Alma) - 11-VI-88 - H.P. *Vitis labrusca* (on *Parietaria*, *Rubus* and *Sambucus*): 1 ♂ dry (*Parietaria*)

- H.P. *Malva* and *Urtica* (behind a big vase): 1♂ 3♀ ♀ dry.

Typhl. 964 - LIGURIA - Albenga (SV) - (Greenhouses of the horticultural centre) - 17-XII-88 - H.P. wild Compositae: ♂♂ ♀♀ not prepared.

HAUPTIDIA provincialis (Ribaut, 1931)

Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - Gargano - (Near the convent) - m 600 - 5-VI-57 - (as *Erythroneura*) - H.P. *Mentha longifolia* v *viridis* (pension Longo): 2♂♂ (1 dry, 1 in alcohol) - phot. 3,991: ♂ in toto; 3,992: ♂ wings prepared in a glass slide - H.P. *Salvia officinalis* (pension Longo): 1♂ in alcohol with the one phot. from *Mentha*.

Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Apium graveolens*, *Petroselinum hortense*, *Lycopersicon esculentum* - (as *Erythroneura*): 32 adults of which 22♂♂ (6 dry, 16 in alcohol), 10♀♀ (3 dry, 7 in alcohol) - Leaves of the host plants very depigmented - in several ♂♂ the sides of the postclypeus are not mostly browned, but just infumate.

Typhl. 146 - APULIA - Gargano (FG) - (Umbra Forest) - m 800 - 22-VII-57 - H.P. *Aethusa cynapium* (umbellifer) - (as *Erythroneura*): 2♂♂ 3♀♀ dry - On the lower page of leaves near the ground.

Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of the Pension Clelia) - 17-VI-II-57 - H.P. *Parietaria officinalis* v *judaica* - (as *Erythroneura*): presence of plenty ♂♂ ♀♀ adults in the same number - 2♂♂ 2♀♀ dry - 40♂♂ and ♀♀ in a plastic tube - 3♂♂ 3♀♀ to Linnavuori, September 1961.

Typhl. 165 - LIGURIA - Manarola (SP) - (Cinque Terre) - 18-VIII-57 - H.P. *Parietaria officinalis* v *judaica* (on small walls with mixed plants of *Potentilla* and various Gramineae) - (as *Erythroneura*): ♂♂ ♀♀.

Typhl. 173 - LATIUM - Formia (LT) - (Hotel in front of the station) - 2-IX-57 - H.P. *Verbena officinalis* (plants situated in a small wasteland, along a small wall) - (as *Erythroneura*): presence of some adults and juveniles of all instars. Basal leaves of the H.P. remarkably depigmented: 2♂♂ dry.

Typhl. 181 - CAMPANIA - Positano (SA) - (Small beach towards Amalfi) - 8-IX-57 - (as *Erythroneura*) - H.P. *Cheiranthus cheiri* (wallflower, leaves mostly depigmented): 2♂♂ dry - H.P. *Lavatera arborea*: ♂♂ ♀♀ not prepared.

Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - 8-IX-57 - H.P. *Parietaria officinalis* - (as *Erythroneura*): ♂♂ ♀♀ not prepared.

Typhl. 315 - CALABRIA - Sila Piccola - Lorica near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) (CS) - m 1,400 - 8/9-VII-61 - H.P. *Hieracium pilosella*, *Hieracium* sp. and other spp. with broad leaves and lying on the ground (among thick small and bushy pines) - (as *Erythroneura*) - (as *Zygina*): !! 2♂♂ 2♀♀ dry - Depigmented leaves and presence of several neanids and nymphs.

Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - Gully in the shade of big chestnuts m 1,000 ~ above Nicolosi (m 698) - (as *Zygina*) - H.P. *Silene cucubalus*: ! 10♂♂ 8♀♀ dry + 7♂♂ 5♀♀ collected on *Chrysanthemum vulgare* - H.P. *Urtica dioica*: ! 3♂♂ 2♀♀ not prepared - H.P. (*Chrysanthemum*)

Tanacetum siculum: ! 7♂♂ 5♀♀ (dry with those collected on *Silene*).

- Typhl. 320 - SICILY - Catania - Mount Etna - Roadman's house - m 1,800-1,900 - 10-VII-61 - (as *Zygina*) - H.P. *Pteris aquilina*: 1♂ not prepared - H.P. *Silene muscipula*!, *Daucus carota*!, *Hyoseris radiata*! (*Hieracium*), *Tunica saxifraga*!, *Achillea moschata*! (plants sheltered by big protruding rocks), *Cerastium tomentosum*: 3♂♂ 2♀♀ dry (phot. 9,078: ♀, length mm 3.0).
- Typhl. 326 - SARDINIA - S. Gregorio (CA) - (road to Muravera) - 12-VIII-61 - (Private holding: villa with park and vegetable garden) - H.P. *Parietaria officinalis* - (as *Zygina*): 2♀♀ dry.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Geranium rotundifolium* (at the entrance of an unexplored cave, 200 m upstream of the barracks) - (as *Zygina*): ! 7♂♂ 4♀♀ dry.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Parietaria officinalis* - (as *Zygina*): 3♂♂ dry.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Stellaria media*! (under the bridge) - (as *Zygina*): 4♂♂ 3♀♀ dry - phot. 9,739: ♀, 2 neg., 2 col., length mm 3.2; phot. 9,740: ♂, 1 neg., 2 col., length mm 3.1.
- Typhl. 384 - SICILY - Siracusa - (Rocky wall, along the national route, in view of the Gulf of Augusta) - 14-IV-62 - H.P. !*Reichardia picroides* (Compositae) and *Parietaria officinalis* (humid ledge) - (as *Zygina*): 5♂♂ 2♀♀ dry.
- Typhl. 386 - SICILY - Agrigento - Porto Empedocle - (Farm, before reaching Realmonte) - m 70 - 16-IV-62 - (as *Zygina*) - H.P. !*Parietaria officinalis* (near a water tank): 1♂ 2♀♀ not prepared - H.P. !*Urtica rupestris*! (in the shadow of a farmhouse): 2♂♂ 3♀♀ dry.
- Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne, after the village) - 16-IV-62 - H.P. *Parietaria officinalis* - (as *Zygina*): 1♂ 2♀♀ not prepared.
- Typhl. 392 - SICILY - Piana degli Albanesi (PA) - 17-IV-62 - H.P. *Parietaria officinalis* - (as *Zygina*): 2♂♂ 3♀♀ not prepared.
- Typhl. 395 - SICILY - Palermo - (Parco della Favorita) - 18-IV-62 - (as *Zygina*) - H.P. *Urtica dioica*: 1♂ 1♀ not prepared - H.P. *Prasium majus* (Labiatae): 3♂♂ 5♀♀ dry - H.P. *Geranium robertianum*: 1♂ 2♀♀ not prepared.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Alnus glutinosa* (occasional host plant, day of strong wind) - (as *Zygina*): 14♂♂ 8♀♀ (coming from herbaceous plants) dry.
- Typhl. 405 - SARDINIA - Mount Corraisi - (Supramonte) - Near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Geranium rotundifolium*, *Satureja nepeta* (low and hairy) (det. Prof. Peyronel), *Prunus prostrata*, *Polystichum filix-mas* (Det. Ariello by comparison!) - In the shadow, under protruding rocks, almost on the top of Mount Corraisi - m 1,000-1,100 - Slope of Oliena - (as *Zygina*): 4♀♀ dry.
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 - 14-VIII-62 - (as *Zygina*) - H.P. *Thymus serpyllum*

- v *herba-barona* (det. Ariello by comparison!) (very depigmented leaves, tufts sheltered by big rocks) m 1,300: ! 1 ♂ not prepared - H.P. *Pteris aquilina* (det. Ariello by comparison) - m 1,350 - (In the shadow of big rocks): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 411 - SARDINIA - Tempio Pausania (OT) - (Fonti di Rinaggiu) - 15-VIII-62 - H.P. *Urtica dioica* - (as *Zygina*): 8 ♂ ♂ 8 ♀ ♀ dry.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, shaded understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. *Hieracium pilosella*, *Prunella vulgaris*, *Lathyrus montanus*, *Vicia cracca*, *Vicia* sp. - (as *Zygina*): 1 ♂ dry.
- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi, road of Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - (Cfr. Typhl. 504) - (as *Zygina*) - H.P. *Thymus vulgaris*: ? 1 ♀ dry - H.P. *Parietaria officinalis* (cool environment: protected by a drystone wall, editor's note): ! 3 ♂ ♂ dry.
- Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Parietaria officinalis* - (as *Zygina*): 1 ♂ 1 ♀ dry.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 ~, 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Castanea sativa* (very low bushes) - (as *Zygina*): 1 ♂ dry.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Urtica dioica* - (as *Zygina*): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 453 - FRANCE - Frontignan (Herault) - (Broadleaf thicket) - 5-V-63 - H.P. *Geranium robertianum* - (as *Zygina*): ♂ ♂ ♀ ♀, 1 ♂ dry.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Verbena officinalis*!, *Parietaria officinalis* (under the bridge of the national route) - (as *Zygina*): (♂ ♂ ♀ ♀), 1 ♂ dry.
- Typhl. 486 - SARDINIA - Porto Conte (SS) - 26-V-64 - H.P. *Parietaria* (behind the bastion) - (as *Zygina*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 487 - SARDINIA - Rio Mannu (SS) - (Bridge on the road Sassari-Alghero) - 27-V-64 - H.P. *Ballota*, *Saponaria*, etc. (*Rubus* hedge) - (as *Zygina*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - (as *Zygina*) - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Wind!): 6 ♂ ♂ 2 ♀ ♀ not prepared - H.P. *Geranium robertianum* (Understorey of *Q. ilex*, m 750): 3 ♂ ♂ 4 ♀ ♀ dry + (!juveniles) - H.P. *Achillea ligustica*! - (Understorey of *Q. ilex*, m 750): 6 ♂ ♂ 9 ♀ ♀ dry.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - (as *Zygina*) - H.P. *Geranium lucidum*, !*Lamium garganicum corsicum*!! (in pseudofolia): 35 ♂ ♂ 37 ♀ ♀ dry - H.P. *Robertia taraxacoides*! (in Fiori it is not mentioned for Sardinia), *Hypochoeris cretensis* v *pinnatifida*, *Valerianella olitoria*, *Lamium amplexicaule* (in the shadow of big rocks): 15 ♂ ♂ 6 ♀ ♀ dry.
- Typhl. 578 - LATIUM - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter reference no. 1,102 of 25-VI-74 - Ponza, Chiaia di Luna - 2-XI-65: 1 ♂ - Ponza, Dragonara - 15-II-66: 1 ♂ 1 ♀ - Palmarola - 3-IV-66: 2 ♀ ♀ - Isola S. Stefano - 5-IV-66: 16 ♂ ♂ 35 ♀ ♀ (also in alcohol) - Ventotene

(traffic light) - 6-IV-66: 2♂♂ 2♀♀.

Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 29-VIII-77: 1♂ - 13-VI-77: 1♀ - Ossi (SS) - 23-III-77: 1♀ - 30-VI-76: 1♀.

Typhl. 646 - LIGURIA - Sanremo (IM) - (Stream S. Romolo) - m 200 - Farm Mucci - Isola Superiore - 23-VIII-82 - H.P. *Alnus glutinosa*: 3♂♂ 2♀♀ dry (from *Parietaria*?).

Typhl. 683 - LIGURIA - Sanremo (IM) - (Farm Mucci) - m 150 - 19-VI-84 - H.P. *Parietaria officinalis*: 1♂ dry.

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Mount Manfrè (CT) - 9-VI-78 (understorey chestnut wood): 1♂ - 5/19-VIII-78 (understorey chestnut wood): 3♂♂ 1♀.

Typhl. 796 - SICILY - Mount Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - m 1,650 - H.P. *Tanacetum siculum* in the shade of *Pinus laricio*: 1♂ dry.

Typhl. 797 - SICILY - Mount Etna (CT) - (Silvestri Craters) - m 1,986 - (Reached from Zafferana) - 2-VIII-85 - H.P. *Achillea* (white), depigmentation-strong wind, no collecting - idem, m 1,800, crossroad (descending) to Zafferana and Nicolosi - Understorey of young *Pinus laricio* (8-10 years old) - H.P. *Silene muscipula*, *Tanacetum siculum*, *Achillea moschata*, etc.: 1♀ dry.

BOXES 44-45

GENUS *ZYGINIDIA* Haupt, 1929

ZYGINIDIA sp.

Typhl. 17 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. different herbaceous species in a *Quercus* coppice - (as *Erythroneura ?scutellaris*): 2♀♀ dry.

Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Locality Follocare (FG) - 6-VI-57 - H.P. humid understorey (on Gramineae): 1♀ dry.

Typhl. 636 - Collezione Ferrari - Museo Civico di Storia Naturale, Genova - LIGURIA - Pontedecimo (GE) - 24-VI-1873: 1♀ - Stazzano (AL) - 19-IX-1875: 1♀ - 19-VIII-1875: 3♀♀ - Det. Vidano, 1982.

Typhl. 797 - SICILY - Mount Etna (CT) - (Silvestri Craters) - m 1,986 - (Reached from Zafferana) - 2-VIII-85 - H.P. *Achillea* (white), depigmentation-strong wind, no collecting - idem, m 1,800, crossroad (descending) to Zafferana and Nicolosi - Understorey of young *Pinus laricio* (8-10 years old) - H.P. *Secale strictum* (abundant, ripe, dry) in the thicket: ?depigmentations.

Typhl. 802 - SICILY - Marsala (TP) - (Lawn of the Hotel President) - 4-VIII-85 - H.P. Gramineae, lawn and *Cynodon dactylon* (along the wall) - (Notes dr Alma).

Typhl. 821 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated - (Cfr. Typhl. 506-507) - Checked on the sides of two maize rows cut for the passage of the irri-

gation pipe: heavy infestation by *Zyginidia* - 1st and 2nd leaf dry - Depigmented: 3rd, 4th, 5th very much, 6th, 7th, 8th considerably. Very high parasitization by *Anagrus atomus*: sampling of a 5th leaf blade; 1,731 eggs (217 + 212 ...) of which 1,617 parasitized - Counted by Arnò (leaf counting dr Arnò) - 17 ♀ ♀ not prepared.

ZYGINIDIA adamczewskii Dworakowska, 1970

Typhl. 179 - CAMPANIA - Anacapri (NA) - (Island of Capri) - 6-IX-57 - H.P. *Agropyron repens* and other wild Gramineae - (Cfr. Typhl. 181) - Vidano 1980: prope *Zyginidia adamczewskii* Dworakovska, 1970 - Gr. *E. scutellaris* - 5 ♂ ♂ (3 dry, 2 in alcohol; ♂ prepared in glycerin on 28-VI-81), 5 ♀ ♀ (2 dry, 3 in alcohol) - (as *Z. anacaprica* n.sp.) - The ♂ differs from *E. scutellaris* by: 1) shape and appendages of the aedeagus; 2) shape of the upper pygofer appendages; 3) shape of genital styli, faint differences in the shape of the pronotum too. N.B.: check the sizes of *E. pullula* Boheman, 1845 (Ossiannilsson, 1937) - (Cfr. Typhl. 181-182) - Det. Vidano 1982 - 2 sketches.

Typhl. 181 - CAMPANIA - Positano (SA) - (Small beach, towards Amalfi) - 8-IX-57 - H.P. *Cheiranthus cheiri* (wallflower) (slightly depigmented leaves) - (as *Erythro-neura* n.sp. gr. *E. scutellaris*): 4 ♂ ♂ 1 ♀ dry - (as in Typhl. 179).

ZYGINIDIA italica (Ribaut, 1947)

Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826) - H.P. *Sorghum vulgare* (herbage), *Cynodon dactylon*, etc. - (as *Zygina italica* Ribaut) forma typica: 7 ♂ ♂ 28 ♀ ♀ (depigmented sorgho leaves) - 3 ♂ ♂ to check! 4 ♀ ♀ dry unclassified - 4 ♂ ♂ 8 ♀ ♀ dry - Forma *intermedia* Vidano 1981: 2 ♂ ♂ 4 ♀ ♀ dry (all ♀ ♀ are unclassified) - (Det. Vidano 1981) - H.P. various Gramineae (*Bromus*, *Festuca*, etc.) along a dry ditch and under small trees of *Populus*, *Quercus*, *Alnus* etc. - (as *Zygina*): 6 ♂ ♂ 12 ♀ ♀ dry.

Typhl. 612 - VENETIA - Verona - Prof. P. Zangheri's collection - Museo Civico di Storia Naturale - Palazzo Gobetti, Corso Cavour 11 (material described in: Pietro Zangheri, Repertorio sistematico e tassografico della flora e fauna vivente e fossile della Romagna, Tomo II, Museo Civico di Storia Naturale di Verona, Mem. fuori serie no. 1, 1966, page 797) - Visit of 20-VII-81 - (as *Zygina*) - Bagnolo (Meldola) - 17-VIII-24 - On shrubs and grasses (17,636 - I saw the new species described by Ribaut) - !The genitalia are missing (maybe in the museum of Paris).

Typhl. 822 - EMILIA-ROMAGNA - Santo Marino (RN) - (Hamlet of Poggio Berni) - 25-VIII-85 - (Locality along the road Santarcangelo-S. Marino) - H.P. *Sorghum vulgare* (dwarf, ripening) with many dry leaves, on a hilly slope - phot. groups of plants with still green leaves, very visited by *Zyginidia* spp. and dechlorophyllated: 1 ♂ dry - (Cfr. Typhl. 506, 507, 821, and 826).

Typhl. 826 - EMILIA-ROMAGNA - Morciano di Romagna (FO) - 26-VIII-85 - H.P. *Zea mays* (irrigated field) 1st-2nd leaves dry; 3rd-6th leaves considerably depigmented, 7th-8th leaves very depigmented, 9th-10th leaves still depigmented, 11th-16th leaves with depigmentation traces - I collected 5 leaves (5th leaf for *Anagrus*) - (Cfr. Typhl. 506,

507, 820, 821): 1 ♂ dry forma *intermedia* (anterior diverging processes slightly wavy like in *Z. ribauti*; posterior converging processes almost as long as the anterior ones).

ZYGINIDIA lineata (Lindberg, 1954)

- Typhl. 330 - SARDINIA - Arborea (OR) - (Drainage district) - 13-VIII-61 - H.P. *Zea mays* (American hybrid) - (as *Zygina sardoa* n.sp.): !!! 13 ♂ ♂ (9 dry, 4 in alcohol), 9 ♀ ♀ (7 dry, 2 in alcohol) - Length of ♂ ♂ mm 2.8-3.3; ♀ ♀ mm 3.0-3.5 - phot. 9,160: ♀ mm 3.4; 9,161: ♂ mm 3.1; 9,162: ♂ mm 2.8 - (Cfr. Typhl. 376, 413, 467) - Close to *E. lineata* Lindberg 1953, page 244 (Canary Islands) - (Cfr. *Zygina biroi* Dlabola 1967) - Basic colour ochraceous, with forebody and elytra tendentially yellowish. Black spots on scutum-scutellum and prosternum very contrasted; in many specimens, both in ♂ ♂ and ♀ ♀, also the brown or black areas of urites are very obvious. Infumate areas on head, thorax, and elytra more or less remarkable - 3 **drawings**, 2 **sketches**.
- Typhl. 376 - SARDINIA - San Giovanni Suergiu (CI) - (Iglesiente) - (Low Sulcis Drainage) - 19-X-61 - H.P. *Echinochloa crus-galli* (depigmented leaves) - (as *Zygina sardoa* Vidano): 2 ♂ ♂ 3 ♀ ♀ not prepared - (Cfr. Typhl. 330).
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Hordeum murinum*!, *Bromus* sp., *Festuca* sp. (*sylvatica*) (stream bed) - (as *Zygina sardoa* Vidano): 9 ♂ ♂ 7 ♀ ♀ dry (check the upper pygofer appendages and the pygofer lobe!) - 1 **sketch**. To Servadei: 2 ♂ ♂ 2 ♀ ♀ April 1971.
- Typhl. 385 - SICILY - Agrigento - m 230 - (Close to the Pirandello's house) - 16-IV-62 - H.P. *Phragmites (communis!) australis* - (as *Zygina sardoa* Vidano): 3 ♂ ♂ 4 ♀ ♀ not prepared - (Cfr. Typhl. 330, 386).
- Typhl. 386 - SICILY - Agrigento - Porto Empedocle - (Farm, before reaching Realmonte) - m 70 - 16-IV-62 - H.P. *Hordeum*, *Bromus tectorum*!, *Phragmites australis* - (as *Zygina sardoa* Vidano) - (Cfr. Typhl. 330): 6 ♂ ♂ 4 ♀ ♀ dry.
- Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne, after the city) - 16-IV-62 - H.P. *Festuca elatior* - (as *Zygina sardoa* Vidano) - (Cfr. Typhl. 330): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Bromus* sp., *Festuca* sp., *Poa* sp., and other wild Gramineae - (as *Zygina sardoa* Vidano): 1 ♂ 1 ♀ dry.
- Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Agropyron repens* - (as *Zygina sardoa* Vidano) - (Cfr. Typhl. 330): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 392 - SICILY - Palermo - (Piana degli Albanesi) - 17-IV-62 - H.P. wild Gramineae - (as *Zygina sardoa* Vidano): 1 ♂ 1 ♀ not prepared.
- Typhl. 413 - SARDINIA - Tottubella di Rumanedda (SS) - m 531 - 16-VIII-62 - H.P. *Zea mays* (very depigmented proximal leaves) - !(as *Zygina sardoa* Vidano) - (Cfr. Typhl. 330): 1 ♂ 1 ♀ dry.
- Typhl. 467 - SARDINIA - Villasimius (CA) - (m 50) - 24-VIII-63 - H.P. *Panicum crus-galli* (among irrigated grapevines) - (as *Zygina sardoa* Vidano): 1 ♂ 6 ♀ ♀ dry.

- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Noto-Vendicari (CT) - 14-VI-79: 1♂ incomplete, 1♂ without abdomen - Cava Carosello, Noto (CT) - (m 400) - 2-VII-79: 1♀.
- Typhl. 798 - SICILY - Siracusa - (River Ciane) - (Papyrus) - 2-VIII-85 - h 15 - H.P. *Cynodon dactylon* (well depigmented leaflets): 2♀♀ - H.P. *Sorghum vulgare* (with inflorescence, herbage 5 cm), *Zea mays* with inflorescences (herbage): 2♀♀ not prepared - Specimens ruined by small fly larvae.
- Typhl. 802 - SICILY - Marsala (TP) - (Lawn of the Hotel President) - 4-VIII-85 - H.P. *Zea mays* (near a vegetable garden and an orchard) (basal leaves depigmented, but no adults there).
- Typhl. 804 - SICILY - Dattilo - Municipality of Paceco (TP) - m 56 - 4-VIII-85 - H.P. *Sorghum vulgare* (dwarf, almost ripe-0.5 ha): 1♂4♀♀ dry - phot. 1♂ mm 3.0; 1♀ mm 3.5 - phot. everything arid around for kilometres.
- Typhl. 807 bis - SICILY - Mazara del Vallo (TP) - m 10 - 4-VIII-85 - Nursery - H.P. *Zea mays* (200 plants ~) in bloom: 1♀ not prepared. Some leaves (1-2 per plant, depigmented here and there) - (Usually 2 or 3 leaves).
- Typhl. 845 - SARDINIA - Villasimius (CA) - 30-IV-86 - Along the seaside - H.P. *Agropyron junceum*, *Lolium perenne*, *Hordeum murinum*, *Avena sterilis* (juveniles of *Zyginidia* sp.: 1st instar: 2; 2nd instar: 13; 3rd instar: 4; 4th instar: 2; 5th instar: 2): 8♂♂10♀♀ (reared).
- Typhl. 846 ter - SARDINIA - Solanas (CA) - 30-IV-86 - Along the seaside - H.P. *Cynosurus echinatus*: 1♀ dry.
- Typhl. 847 - SARDINIA - Pula (CA) - 1-V-86 - H.P. *Avena sterilis*: 4♂♂ dry.

ZYGINIDIA longicornis Vidano, 1982

- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826) - H.P. various Gramineae: *Bromus*, *Festuca*, etc., along a dry ditch and under small trees of *Populus*, *Quercus*, *Alnus*, etc. - !!!Det. Vidano 1982: 2♂♂ dry; **drawn** (paratypes).
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Agropyron repens*, *Agropyron ?elongatum* (not mentioned by Fiori for the Apennine of Forlì), *Cynodon dactylon*: !! 2♂♂4♀♀ (Paratypes) dry - 1♂ **drawn** - Holotypus, Allotypus - **Drawn** aedeagus lateral and frontal and pygofer lobe - Length of ♂♂: mm 2.5-2.7, ♀♀ mm 2.7-3.0.
- Typhl. 821 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated - (Cfr. Typhl. 506-507) - Checked on the sides of two maize rows cut for the passage of the irrigation pipe: heavy infestation by *Zyginidia* - 1st and 2nd leaf dry - Depigmented: 3rd, 4th, 5th a lot, 6th, 7th, 8th considerably. Very remarkable parasitization by *Anagrus atomus*: sampling of the blade of a 5th leaf; 1,731 eggs (217 + 212 ...) 1,617 of which parasitized - Counting by Arnò (leaves counted by dr Arnò) - 2♂♂ dry + ♀♀.

Typhl. 822 - EMILIA-ROMAGNA - Santo Marino (RN) - (Hamlet of Poggio Berni) - 25-VIII-85 - (Locality along the road Santarcangelo-S. Marino) - H.P. *Sorghum vulgare* (dwarf, ripening) with many dry leaves, on a hilly slope - phot. groups of plants with still green leaves, very frequented by *Zyginidia* spp. and dechlorophyllated - 4♂♂ dry.

Typhl. 826 - EMILIA-ROMAGNA - Morciano di Romagna (FO) - 26-VIII-85 - H.P. *Zea mays* (irrigated field) 1st-2nd leaves dry; 3rd-6th leaves remarkably depigmented, 7th-8th leaves very depigmented, 9th-10th leaves still depigmented, 11th-16th leaves with depigmentation traces - I collected 5 leaves (5th leaf for *Anagrus*) - (Cfr. Typhl. 506, 507, 820, 821): 1♂ dry (loan to Walter della Giustina, 28-II-86: returned).

ZYGINIDIA mocsaryi (Horváth, 1910)

Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Valsavarenche - Tignet (AO) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Briza media*, *Dactylis glomerata*, *Deschampsia cespitosa* (Gramineae) - (as *Erythroneura alticola*, Ossiannilsson) (*E. scutellaris* group): 8♂♂ (4 dry, 4 in alcohol), 19♀♀ (6 dry, 13 in alcohol). Length of ♂♂♀♀ mm 3.4-3.8 - (Cfr. Typhl. 350) - phot. 6,391: ♂; 6,392: ♀; 6,393: wings - **Drawings** of the aedeagus dorsal and lateral.

Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (arid hill, near building sites) - 1-X-61 - H.P. *Dactylis glomerata*, *Bromus sterilis*. Under the *Crataegus* bush mentioned above (*C. monogyna*, editor's note) on a slope. Arid environment - (as *Zygina sylvicola* Ossiannilsson): 6♂♂8♀♀ dry - (Cfr. Typhl. 265).

Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Non karstic small valley, on the opposite side of the road than Typhl. 351) - 1-X-61 - H.P. various Gramineae (under the *Quercus* mentioned above: *Q. pubescens*, editor's note) - (as *Zygina sylvicola* Ossiannilsson): 2♂♂4♀♀ dry. Phot. (...): ♂ pygofer.

Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel along the seaside) - 3-X-61 - H.P. *Dactylis glomerata* - (as *Zygina sylvicola* Ossiannilsson): 3♂♂5♀♀ dry. Phot. (...): ♂ pygofer.

Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate cableway station to Campo Imperatore) - m 1,600 ~ - 27-VIII-64 - H.P. Gramineae (*Festuca*, *Bromus*, etc., under *Pinus sylvestris*: reforestation) - (as *Zygina ?sylvicola* Ossiannilsson): 1♀ dry.

Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - (*Quercus ?pubescens*) - H.P. *Bromus*, *Festuca*, and other Gramineae (under *Ostrya carpinifolia*) - !(as *Zygina sylvicola* Ossiannilsson): 1♂ dry (phot. pygofer on 4-VII-81).

ZYGINIDIA pullula (Boheman, 1845)

Typhl. 10 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Lycopus europaeus* (in hedge with Gramineae along the Canal) - (as *Erythroneura scutellaris* Herrich-Schäffer): 1♂1♀ dry.

Typhl. 50 - PIEDMONT - Caluso (TO) - (Border of Vidano - Plazio's properties) - 14-X-

- 56 - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981) - H.P. *Zea mays* (property Plazio): 21 individuals, all ♀ ♀ !!! (in alcohol with the previous ones: *Z. scutellaris* on wild herbaceous plants, editor's note) - H.P. uncultivated field, with wild Gramineae; dry environment: 19 individuals of which 4♂♂ (3 in alcohol in the glass tube mentioned above), 15♀♀ (1♂ 15♀♀ prepared dry) - *E. scutellaris* (*pullula*, editor's note) in this period it is very abundant in arid places and wastelands, or in maize fields bordering on Vidano's home (Caluso). The only ♂ carefully examined and then prepared dry has: upper pygofer appendages and appendages of the aedeagus very elongated and therefore different from the corresponding ones drawn by Ribaut - (Cfr. Typhl. 161) (Det. Vidano 1981).
- Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Prunus persica* - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 1♀ dry (from Gramineae).
- Typhl. 53 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 18-X-56 - H.P. *Salvia pratensis* and Gramineae (along the side of the national route) - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 1♀ dry.
- Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981) - H.P. *Salix caprea* (near Gramineae): 2♀♀ dry - H.P. *Quercus* sp. (with Gramineae nearby): 1♀ dry.
- Typhl. 55 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Lycopus europaeus* - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 2♀♀ dry.
- Typhl. 56 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981) - H.P. *Carex cespitosa*, wild Gramineae, *Potentilla* sp. (humid environment): 1♂ 4♀♀ dry - H.P. *Carex* (with very long leaves): 13 individuals of which 5♂♂ (1 dry, 4 in alcohol), 8♀♀ (2 dry, 6 in alcohol).
- Typhl. 66 - (Cfr. Typhl. 62) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 1♂ 1♀ dry.
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 1♂ 6♀♀ dry.
- Typhl. 71 - (Cfr. Typhl. 64) - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto and Maresciallo Garino's properties) - 10-XI-56 - H.P. various herbaceous plants under *Quercus* - (as *Erythroneura scutellaris*) - (Det. Vidano 1981): 5♂♂ 35♀♀ in a plastic tube.
- Typhl. 75 - PIEDMONT - Caluso (TO) - (Podio Guglielmo's field) - 3-III-57 - H.P. *Triticum vulgare* - (as *Erythroneura scutellaris*): 4♀♀ not prepared - This species overwinters along arid hedges.
- Typhl. 112 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-VI-57 - H.P. wild Gramineae (heading) - Hedge - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 2♀♀ dry.

- Typhl. 137 - PIEDMONT - Caluso (TO) - (Tululena's uncultivated field) - 13-VII-57 - H.P. *Cynodon dactylon* - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981) - Presence of only ♀ ♀ : 3 ♀ ♀ dry.
- Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - H.P. *Carex*... and various wild Gramineae (*Lolium perenne*, *Molinia caerulea*) - (Side of a secondary road crossing the woods) - (Cfr. Typhl. 188, 307) - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1981): 1 ♂ 3 ♀ ♀ dry. Aedeagus straight, lamellar, compressed laterally, with only one couple of appendages, as long as the aedeagus, curved and apart proximally, straight and coalescent distally - Upper pygofer appendages very developed, slender, divaricated, pointed. But it differs from Ossiannilsson's and Wagner's *pullula* - 3 **sketches** of the aedeagus.
- Typhl. 197 - PIEDMONT - Stupinigi (TO) - (Stream Sangone) - 24-IX-57 - H.P. *Salix alba*, *Salix purpurea* - (as *Erythroneura septentrionis* Vidano): 1 ♂ dry (it arrived on the willows from the Gramineae beneath).
- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. wild Gramineae - (as *Erythroneura septentrionis* Vidano): 7 ♂ ♂ (4 dry), 7 ♀ ♀ (2 dry).
- Typhl. 207 - PIEDMONT - Santena (TO) - (road Trofarello-Poirino) - 4-X-57 - H.P. *Panicum crus-galli* - (as *Erythroneura septentrionis* Vidano): 6 ♂ ♂ 10 ♀ ♀.
- Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Sorghum halepense* - (as *Erythroneura septentrionis* Vidano): 2 ♂ ♂ 1 ♀ dry.
- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Helianthemum ?vulgare* (Alpine pasture) (depigmented leaves) - (as *Erythroneura septentrionis* Vidano) - (on meadow Gramineae): 1 ♂ 1 ♀ dry - (Cfr. Typhl. 622).
- Typhl. 219 - PIEDMONT - Barone Canavese (TO) - (Thickets near the road to S. Giorgio) - 12-X-57 - H.P. wild Gramineae (*Cynodon*, *Festuca*, *Poa*, etc.) - (as *Erythroneura septentrionis* Vidano): 3 ♂ ♂ 1 ♀ dry.
- Typhl. 222 - PIEDMONT - Pino Torinese (TO) - (Park of a villa) - 14-X-57 - H.P. *Setaria viridis* (near a small wall) - (as *Erythroneura septentrionis* Vidano): many adults, mostly ♀ ♀ ; 4 ♂ ♂ 4 ♀ ♀ dry, 10 ♀ ♀ not preserved.
- Typhl. 261 - LOMBARDY - Goito (MN) - (Anonymous estate agency Sacca and a manager - Farmer Favulli Cesare - Farm directed by Mr Boffi) - 6-VIII-58 - H.P. barnyard grass - (as *Erythroneura*): 2 ♂ ♂ 3 ♀ ♀ dry - Present in a great number; but this one does not live on *Vigna*, but on the weed barnyard grass.
- Typhl. 262 - PIEDMONT - Turin - Mirafiori (Centro Meccanico Agricolo) - 9-VIII-58 - H.P. *Zea mays* (in a thick herbage) - (as *Erythroneura*): ♂ ♂ ♀ ♀ adults (some dry), eggs, neanids, nymphs, oophagous mymarids in alcohol. Very depigmented basal leaves. The eggs are laid mostly in the distal part of the sheath, then in the proximal part of the leaf blade or in the main vein, on its sides. These eggs are very parasitized by a mymarid (*Anagrus* sp.).
- Typhl. 268 - PIEDMONT - Turin - Mirafiori - 16-IX-58 - H.P. *Zea mays* - (Cfr. Typhl. 262) - (as *Erythroneura*): presence of plenty adults. Very depigmented leaves. Phot.

- 6,543: ♀; 6,544: ♂; 6,545: elytron and wing of a ♀.
- Typhl. 271 - PIEDMONT - Stupinigi (TO) - (Bridge of the stream Sangone) - 8-X-58 - (as *Erythroneura*) - H.P. *Salix purpurea*: 3 ♀ ♀ not prepared - (Cfr. Typhl. 197) - H.P. *Cynodon dactylon* (arid environment): 5 ♂ ♂ 12 ♀ ♀ in a plastic tube.
- Typhl. 274 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Xerothermic oases) - 22-X-58 - H.P. various wild Gramineae (arid environment) - (as *Erythroneura*): 4 ♂ ♂ 9 ♀ ♀ in a plastic tube.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - Astronomic Observatory of Pino - 13-IX-61 - H.P. Gramineae, *Panicum sanguinalis* det. prof. Peyronel, *Molinia caerulea* det. prof. Peyronel (heading under small oaks), *Panicum* (barnyard grass), *Zea mays* - (as *Zygina*): 23 ♂ ♂ 18 ♀ ♀ dry - Maize and barnyard grass with very depigmented leaves.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. Gramineae (under alders) - (as *Zygina*): 1 ♂ dry - (Cfr. Typhl. 349).
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - (as *Zygina*) - H.P. Gramineae and Cyperaceae (among bushes of *Acer*, *Quercus*, *Corylus*): 1 ♂ not prepared - H.P. *Sorghum halepense* (in the beet field): 3 ♂ ♂ 4 ♀ ♀ not prepared - H.P. *Zea mays*: 4 ♂ ♂ 3 ♀ ♀ dry.
- Typhl. 361 - FRIULI-VENEZIA GIULIA - Foce del Timavo (TS) - (Bridge of the motorway Monfalcone-Trieste) - 2-X-61 - H.P. *Zea mays*, *Cynodon dactylon* - (as *Zygina*): 5 ♂ ♂ 20 ♀ ♀ dry. **Drawings** of the aedeagus. It differs from Ossiannilsson's and Wagner's *pullula* by the position of the processes of the aedeagus and the point of the upper pygofer appendages.
- Typhl. 364 - FRIULI-VENEZIA GIULIA - Trieste - Noghera - (Old saltworks between Trieste and Muggia) - Day of strong Bora wind! - 3-X-61 - H.P. various Gramineae - (as *Zygina*): 2 ♂ ♂ 3 ♀ ♀ not prepared. N.B.: total of the species collected in Trieste and surroundings in the days 1/3-X-61: 64 of which 3 n.sp. and 6 not yet present in my collection.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Poa*, *Festuca*, *Cynodon* - (as *Zygina*): 3 ♂ ♂ 22 ♀ ♀ not prepared.
- Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Panicum crus-galli* (in a vineyard, in a cool site) - (as *Zygina*): 5 ♂ ♂ 9 ♀ ♀ dry.
- Typhl. 439 - PIEDMONT - Caselette (TO) - (Susa Valley) - 2-X-62 - Perennial polyphyte meadow (biotope near an apple tree: some host plants in a semi-arid environment, others in a humid environment) - H.P. Gramineae, mainly tufts of *Lolium*, *Poa*, *Festuca*, *Dactylis* - (as *Zygina*): ! 3 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 494 - Homoptera Auchenorrhyncha - Dr I. Harpaz: letter 15-VII-63 - (as *Zygina*) - Pavia - 11-VIII-62 - H.P. rice: 1 ♀ - Trecate (NO) - 10-VIII-62 - H.P. rice: 1 ♂ 1 ♀ - Cameri (NO) - H.P. maize: 5 ♀ ♀.
- Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 -

- H.P. *Sorghum vulgare* (herbage) - (Very depigmented basal leaves) - (as *Zygina*): 4♂♂ 6♀♀ dry.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - Mura, m 150-200-300 East of the town (*Quercus ?pubescens*) - 6-IX-64 - H.P. *Festuca* and other Gramineae (under bushes of ornamental plants) - (as *Zygina*): 4♂♂ 1♀ dry.
- Typhl. 528 ter - JUGOSLAVIJA - Montenegro - Titograd (vineyard of the Institute of Agromomic Research) - 7-IX-64 - (as *Zygina*) - H.P. *Digitaria sanguinalis*, *Cynodon*, etc. (in a *Vitis* row): 2♂♂ 2♀♀ dry - H.P. *Zea mays*, *Sorghum vulgare* (herbages): 2♂♂ 2♀♀ dry - H.P. *Sorghum halepense*, *Cynodon dactylon*: 7♂♂ 11♀♀ dry.
- Typhl. 566 - JUGOSLAVIJA - Kutina (Hrvatska, 70 Km from Zagreb) - Locality at 12-15 Km from Kutina at the height of m 250 ~. Along villages and country roads. Very humid environment - 1-IX-66 - H.P. Gramineae (*Festuca*, *Bromus*, etc.) - (as *Zygina*): 1♂ 2♀♀ dry.
- Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. Gramineae (on *Panicum crus-galli*) - (as *Zygina*): 3♂♂ 5♀♀ dry - H.P. *Oryza sativa*: 2♀♀ not prepared.
- Typhl. 591 - PIEDMONT - Carignano (TO) - 23-VIII-80 - H.P. *Zea mays*: 1♂ 7♀♀ dry - phot. (...): ♀ mm 3.0 - Relatively few adults and juveniles alive. Many adults, even 5-6 per leaf, dead: blocked on the lower page by Entomophthoraceae. On such leaves I saw no adults and juveniles alive. 5 adults (2♂♂ 3♀♀) left in a glass tube with a maize leaf, were blocked and covered with micelium on 25-VIII. Photographed some adults affected by Entomophthoraceae: *Aureobasidium pullularis* or *Trichosporium*?
- Typhl. 593 - PIEDMONT - Pinerolo (TO) - 29-VIII-80 - H.P. maize: 4♂♂ 3♀♀ dry. Presence of juvenile stages. Phot. 5th instar nymph mm 2.2 (20x). Presence of adults "blocked" by Entomophthoraceae (see Typhl. 591).
- Typhl. 594 - PIEDMONT - Roddino (CN) - m 610 - 31-VIII-80 - H.P. *Zea mays*: 9♂♂ 8♀♀ dry.
- Typhl. 596 - PIEDMONT - Castel Boglione (AT) - 6-IX-80 - H.P. *Bromus sterilis* (in a cane thicket), *Arundo donax*: 4♂♂ 7♀♀ dry - H.P. *Zea mays* (near the above mentioned cane thicket): 6♂♂ 8♀♀ not prepared.
- Typhl. 597 - PIEDMONT - Predosa (AL) - 7-IX-80 - H.P. *Agropyron repens*, *Cynodon dactylon* (in a yard frequented by chicken, arid environment): 8♂♂ 1♀ dry.
- Typhl. 599 - PIEDMONT - Beinasco (TO) - 14-IX-80 - H.P. *Zea mays* (young herbage): 20♂♂ 1♀ not prepared.
- Typhl. 600 - PIEDMONT - Stupinigi (TO) - (Hamlet Valfrè) - 16-IX-80 - H.P. *Zea mays* (ripening): dead adults on leaves (blocked by Entomophthoraceae) - H.P. *Zea mays* (herbage): 20♂♂ 5♀♀ not prepared (specimens not affected by Entomophthoraceae).
- Typhl. 601 - PIEDMONT - Predosa (AL) - 28-IX-80 - H.P. *Cynodon* (under *Pyrus*): ♂♂ ♀♀ (1♂ dry) - H.P. Gramineae under *Quercus*: ♂♂ ♀♀ (1♂ dry) - H.P. *Cynodon* (near *Trifolium repens*): ♂♂ ♀♀ (1♂ dry) - H.P. Gramineae (near *Vitis*): ♂♂ ♀♀ (1♂ dry) - Altogether 12♂♂ (+ 4 dry), 14♀♀: reared on maize on 1-X-80.

- Typhl. 605 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 12-VI-81 - H.P. *Zea mays*: 13♂♂ 12♀♀ reared for Entomophthoraceae + 20 more adults (♂♂ ♀♀ 1:1 ~).
- Typhl. 611 - Prof. A. Servadei's collection - Museo Civico di Storia Naturale, Verona - Reclassification of 14 *Zyginidia* lent by prof. Ruffo on 20-VII-81, already determined by Dlabola - Padua - 6-VII-52: 1♂; 10-VIII-57: 1♂ - FRIULI-VENEZIA GIULIA - Tarvisio (UD) - 16-VII-59: 1♀? - Pordenone (PN) - 24-X-67: 1♀? - VENETIA - Padua - 8-VIII-74: 1♂; 15-X-71: 1♀ - Diagnosis of the 17 *Z. scutellaris* specimens received on loan on 20-VII-81, already determined by Ribaut - EMILIA-ROMAGNA - Portonovo in Emilia-Romagna (BO) - 1-VIII-42: 1♂ - TUSCANY - Certosa (FI) - 23-III-45: 1♀ - VENETIA - Negrar (VR) - 9-X-54: 1♀ - B. Nordio - 3-IX-87: 1♂ - Vicenza - 25-V-74: 2♂♂; 31-VII-74: 1♂ - Arquà P. (PD) - 31-VII-75: 1♂ - Cansiglio - 9-IX-74: 1♀ - 8-VIII-75: ♀ - PIEDMONT - Condove (TO) - 24-II-71: 1♂ - SICILY - Vulcano (ME) - 12-VI-74: 3♀♀.
- Typhl. 612 - VENETIA - Verona - Prof. P. Zangheri's collection - Museo Civico di Storia Naturale - Palazzo Gobetti, Corso Cavour 11 (material described in: Pietro Zangheri, Repertorio sistematico e tassografico della flora e fauna vivente e fossile della Romagna, Tomo II, Museo Civico di Storia Naturale di Verona, Mem. fuori serie no. 1, 1966, page 797) - Visit of 20-VII-81 - Forlì - 14-VII-49, at home (20,545, det. Ribaut) - Checked and confirmed! It is a ♂ with the aedeagus prepared.
- Typhl. 622 - PIEDMONT - Salbertrand (TO) - m 1,000 - 21-VIII-81 - (Windy day) - H.P. *Zea mays* (few plants in a vegetable garden): 1♀ dry (specimen reared from a nymph) - (Cfr. Typhl. 213).
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Molinia caerulea* (arid environment): 2♂♂ 5♀♀ dry - H.P. *Molinia* + *Juncus*: 1♀ not prepared - H.P. *Molinia* + *Calluna* (clearing with few birches; arid): 2♂♂ 2♀♀ dry.
- Typhl. 633 bis - PIEDMONT - Rovasenda (VC) - m 220 - Baraggia - 17-IX-81 - H.P. *Panicum crus-galli* (ditches): 5♂♂ 8♀♀ not prepared - H.P. *Oryza sativa* (from *P. crus-galli*): 2♀♀ not prepared.
- Typhl. 636 - Ferrari's collection - Museo Civico di Storia Naturale, Genoa - 3-III-82 - PIEDMONT - Stazzano (AL) - 18-IX-1875: 2♂♂ 1♀ + head and rests of a missing specimen - Sezzè (AL) - 1875: 1♂ - Det. Vidano, 1982.
- Typhl. 638 - PIEDMONT - Predosa (AL) - 4-X-81 - H.P. grapevine - Rearing A: 3♀♀ healthy; rearing B: 1♀ healthy; rearing C: 1♀ healthy; rearing D: 1♂ 2♀♀ healthy; rearing E: 3♀♀ healthy - not prepared.
- Typhl. 648 - PIEDMONT - Predosa (AL) - 29-VIII-82 - H.P. *Vitis vinifera*: 3♀♀ not prepared.
- Typhl. 649 - PIEDMONT - Costigliole (AT) - 5-IX-82 - H.P. grapevine: 1♂ dry + 2♀♀ - I found about ten ichneumonid specimens in a spiderweb: they are different from what was reared until now from *Lobesia botrana* (not prepared).
- Typhl. 650 - LOMBARDY - Rovescala (PV) - 9 June - 21 September 1982 - (Leg. prof. Domenichini) - Ferretti (PV) - Plastic bag no. 2 - 2/9-VII-82: ♂♂ ♀♀.
- Typhl. 668 - VENETIA - San Stino (VE) - (Pra Salezza) - 10-XI-83 - (Leg. dr Maurizio

- Paoletti) - H.P. *Hordeum vulgare* (12-18 cm): 30-80 specimens/m² - Depigmentations - 4♂♂ 13♀♀ + 6 specimens without abdomen - San Stino (VE) - (Boscata) - 10-XI-83 - H.P. *Triticum vulgare* (10-14 cm): 20-60 specimens/m² - 6♀♀.
- Typhl. 669 - VENETIA - (Leg. dr Maurizio Paoletti) - Praglia (PD) - 20-XI-83 - H.P. Gramineae (after maize, in heading): 4♀♀ - San Stino (VE) - (Pra Salezza) - (Farm Piva) - 10-XI-83 - H.P. *Hordeum vulgare*: 3♂♂ 16♀♀ + 7 specimens without abdomen - San Stino (VE) - (Boscata) - (Farm Piva) - 10-XI-83 - H.P. *Triticum vulgare*: 4♀♀ - San Stino (VE) - (Farm Piva) - 29-IX-80 - H.P. ...: 1♂ - Iesolo (VE) - (Farm Vascellari) - 14-X-80 - H.P. ? (soil biology) (tu I): 1♂ - Iesolo (VE) - (Farm Vascellari) - IX-80: 1♀ + 1 5th instar nymph - Concordia (VE) - (Farm Stradolini) - 27-IX-80: 1♂ - San Stino (VE) - (Farm Sita) - 29-IX-80 - H.P. ? (soil biology) (Tu I): 2♂♂ - San Stino (VE) - (Boscata) - (Farm Piva) - 24-XI-83 - H.P. *Triticum vulgare* (many specimens collected underground, among the clods): 21♀♀ - San Stino (VE) - (Pra Salezza) - (Farm Piva) - 24-XI-83 - H.P. *Hordeum vulgare* (many specimens collected underground, among the clods).
- Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 7♀♀ (pale, depigmented): 1) 7 mature eggs; 2) 2 mature eggs; 3) 10 mature eggs; 4) 6 mature eggs; 5) 12 mature eggs; 6) 6 mature eggs; 7) 7 mature eggs.
- Typhl. 674 - PIEDMONT - Cavaglià (BI) - (Farm...) - 9-V-84 - H.P. wheat, barley (8-10 cm tall with yellows), rye, oats (with the ear), tritical (*Triticum vulgare* x *Secale cereale*): presence of light ♀♀ (old) and 1st instar juveniles, mainly on wheat and barley (from 4-5 to 20-25 adults per cm²). Less on rye, oats, and tritical (from 0-2 to 4-5 per m²).
- Typhl. 678 - PIEDMONT - Quattordio-Casal Cermelli-Portanova-Predosa (AL) - 10-VI-84 - H.P. *Zea mays* (small plants, with 4-5 leaves and without depigmentation traces) - *Zyginidia pullula* present on: *Agropyron repens*, *Dactylis glomerata*, *Triticum vulgare*: ♂♂ ♀♀ not prepared - (Cfr. Typhl. 686, 695).
- Typhl. 680 - PIEDMONT - San Giorio (TO) - 14-VI-84 - H.P. *Zea mays*: 1♀ not prepared, (light specimen, probably of the overwintered generation, on a depigmented plant. Plants with 5-6 leaves; few depigmentations).
- Typhl. 681 - PIEDMONT - Pavone Canavese (TO) - 17-VI-84 - H.P. *Zea mays* (35-40 cm tall, with 6-7 leaves): 2♂♂ 2♀♀ not prepared - Presence of depigmented leaves, even 5-6 per plant, but of very few adults. 1st generation adults coming from nearby wheat.
- Typhl. 686 - PIEDMONT - Quattordio-Casal Cermelli-Portanova-Predosa (AL) - 24-VI-84 - (Cfr. Typhl. 678, 695) - H.P. *Zea mays*: ♂♂ ♀♀ not prepared. Scarce (on plants with 8-10 leaves, 3 or 4 of which depigmented) and coming from *Agropyron*, *Cynodon*, *Triticum* etc. *Sitobium avenae* and entomoparasitic fungi: phot.
- Typhl. 687 - PIEDMONT - Predosa (AL) - 24-VI-84 - H.P. *Agropyron repens* (in a grapevine row) (vineyard ploughed recently): 1♂ 2♀♀ dry - H.P. grapevine (beginning of blossoming): 1♀ not prepared.
- Typhl. 688 - PIEDMONT - Casale Monferrato (AL) - 24-VI-84 - H.P. *Zea mays*: ♂♂ ♀♀ (1♂ 1♀ dry) scarce, on plants with 10-11 leaves, 4-5 of which depigmented and coming from *Sorghum halepense*, *Echinochloa crus-galli*, *Cynodon dactylon*.

- Typhl. 689 - PIEDMONT - Fontanetto Po (VC) - 24-VI-84 - H.P. *Sorghum halepense*, *Cynodon dactylon* (border of a ricefield): 1♂ 1♀ dry.
- Typhl. 690 - PIEDMONT - Carignano (TO) - 28-VI-84 - Experimental Field of the Istituto Scienza Coltivazioni - H.P. *Zea mays* - (Cfr. Typhl. 711): ♂♂ ♀♀ scarce (on plants with 11-12 leaves, 3-4 of which depigmented) and coming from ditches and plots with *Dactylis glomerata*, *Sorghum halepense*, *Bromus erectus*, *Echinochloa crus-galli*, *Holcus lanatus*, *Agropyron repens*, *Cynodon dactylon* - I collected 5♂♂ 5♀♀ (1♂ 2♀♀ dry) - Presence of eggs but not yet of juveniles on maize.
- Typhl. 695 - PIEDMONT - Poirino (TO) - 8-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 706: 22-VII-84): 11♂♂ 18♀♀ not prepared. N.B.: maize plants with 10-12 leaves, 3-4 proximal ones of which (more rarely 5-6), depigmented by *Z. pullula*. Third and fourth leaf with eggs (from 4-5 to 10-12 per leaf) and juveniles (mostly 1st and 2nd instar neanids; rarely 4th and 5th instar nymphs). Leaves parasitized by *Anagrus*. Intermediate leaves (about 6-9) with adults (2-3 per plant) still of the generation grown on wild Gramineae and on wheat and barley. ♂♂:♀♀ ratio 2:3.
- Typhl. 695 bis - PIEDMONT - Quattordio (AL) - 8-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 678: 10-VI-84; 686: 24-VI-84; 707: 22-VII-84): 12♂♂ 20♀♀ not prepared. N.B.: maize plants with 9-11 leaves, 3-4 proximal ones of which (more rarely 5-6) depigmented by *Z. pullula*. Third and fourth leaf with eggs (from 8-10 to 20-25 per leaf) and juveniles (1st and 2nd instar neanids and 4th and 5th instar nymphs). Eggs with *Anagrus* pupae (from 2-3 to 18-20 per leaf!). Adults (3-4 per plant) on intermediate leaves (6-9). ♂♂:♀♀ ratio 3:5. *Lema* sp.: 4 adults on re-seeded maize (5-6 leaves per plantlet). On the left side of the road.
- Typhl. 696 - PIEDMONT - Casal Cermelli (AL) - (Alessandria, nursery) - 8-VII-84 - H.P. *Zea mays*: 15♂♂ 25♀♀ not prepared - Plants with 9-11 leaves. Situation similar to that of Quattordio (Typhl. 695 bis); third and fourth leaf with more depigmentations and eggs (from 8-10 to 25-30 per leaf): many with *Anagrus* pupae (from 3-4 to 15-25 per leaf). Adults (5-6 per plant) on intermediate leaves (6-9). ♂♂:♀♀ ratio 3:5.
- Typhl. 701 - PIEDMONT - Almese (TO) - 15-VII-84 - H.P. *Zea mays* (near Rosa's orchard): 10♂♂ 8♀♀ not prepared. 1♀ with a hypopus of *Allothrombium fuliginosum*. Phot. (...) - (Cfr. Typhl. 680: San Giorio 14-VI-84). Maize plants with 9-11 leaves, 1-5 of which very depigmented, 6 and 7 poorly depigmented, 8 and 9 with depigmentation traces. Meaningful countings in the field (Vidano and Arzone). 5th depigmented leaf. First case: 25 specimens (1st, 2nd, 3rd instars plus 5 *Anagrus* pupae); second case: 18 specimens (1st, 2nd, 3rd instars plus 6 *Anagrus* pupae). **Sketch** of the aedeagus with a remarkable apical curving - Maize plants examined in toto; 1st plant: from 1st to 5th leaf with a heavy depigmentation: 1st with 2 exuviae, 2nd with 3 exuviae, 3rd with 6 1st and 2nd instar neanids, 4th with 7 1st and 3rd instar neanids, 5th with 1st and 3rd instar neanids and 3 eggs with *Anagrus*; 6th-7th leaf with a poor depigmentation, 6th with 2 exuviae and 1st instar neanids; 8th-9th-10th leaf with a beginning of depigmentation. 2nd plant: 1st-5th leaf with a heavy depigmentation: 1st dry, 2nd and 3rd with 2 exuviae, 4th with 7 1st and 2nd instar neanids, 5th with 8 1st and 3rd instar neanids and 9 eggs with *Anagrus* pupae, 6th-7th with a poor depigmentation, 6th with 2 1st instar neanids, 8th-9th with a beginning of depigmentation. 3rd plant: 1st-5th leaf with a heavy depig-

mentation: 1st with 2 exuviae, 2nd and 3rd with 5 1st and 3rd instar neanids, 4 with 6 1st and 3rd instar neanids, 5 with 7 1st and 3rd instar neanids, 6th-7th with a poor depigmentation, 6th with 2 1st instar neanids, 8th-9th with a beginning of depigmentation - The listed data are not meaningful for the number of neanids per leaf. Tearing the leaf and uprooting the plants causes the immediate movement and flight of most of the juveniles onto the upper leaf page or the stem. In the heavily infested plants, rapid and meaningful countings give the following result: 1st-5th leaf with a heavy depigmentation: 1st 0-3 exuviae; 2nd 0-5 1st and 2nd instar neanids; 3rd 5-10 1st instar neanids; 4th 8-16 1st and 3rd instar neanids; 5th 12-30 1st and 3rd instar neanids and 3-20 *Anagrus* pupae; 6th, 7th with a poor depigmentation; 6th 2-5 1st instar neanids; 8th with a beginning of depigmentation - 4-6 adults per plant generally on the subapical leaves.

Typhl. 705 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Vitis vinifera*: 1♂ 1♀ not prepared.

Typhl. 706 - PIEDMONT - Poirino (TO) - 22-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 695: 8-VII-84): 6♂♂ 12♀♀ not prepared (6♀♀ with elytra depigmented and black abdomen: old generation; 6♂♂ 6♀♀ newly emerged with a not strengthened integument) - Recapitulation: 1st overwintering generation, 2nd generation on wheat, 3rd generation on maize - Maize: appearance of the very first male inflorescences, on plants with about 16 leaves (14-18) - Few adults: 1-2 per plant - Adults 1/3 of the old generation (♀♀); 2/3 just emerged (♂♂♀♀) - 4th and 5th instar nymphs on 4th-5th-6th leaf: 0-4 nymphs per leaf - Newly emerged adults attracted by young *Echinochloa* plants infesting maize - Adults ready to migrate onto 2nd sown maize that was sown after harvesting wheat.

Typhl. 707 - PIEDMONT - Quattordio (AL) - 22-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 678: 10-VI-84; 686: 24-VI-84; 695: 8-VII-84; 724: 9-IX-84): 7♂♂ 14♀♀ not prepared - N.B.: maize plants with the male inflorescence still closed in the 15th-16th leaf - Adults (1/3 old generation, 2/3 new generation) scarce: 1-2 per plant - Nymphs scarce: 0-4 of 4th and 5th instar on 4th-5th leaf - *Cicadula placida*, 1 every 2-3 plants, phot. (...) - On the left part of the road: maize with *Lema* (Cfr. Typhl. 686) - Maize plants with 9-10 leaves (*Lema* disappeared) - 1st-5th leaf poorly depigmented - 4th-5th leaf with juveniles (1st-3rd instars and eggs with *Anagrus*: red!) - !!!one leaf (5th), relatively poorly depigmented and 11 neanids. On the same leaf I saw 3 *Anagrus* ovipositing, phot. (...).

Typhl. 708 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Zea mays* (Marietta's field, near the bridge of the motorway Alessandria-Ovada) - Maize plants with 8-9 leaves (delay in vegetation because of re-seeding. Presence of dry wheat and stubble but no more maize for at least 600-700 m - Adults: 5-6 per plant - Leaves 1-5 very (!!!) depigmented (phot.) - 6th-7th leaf very depigmented - 8th-9th leaf with depigmentation traces - 5th leaf with 10-25 juveniles (1st-5th instar) and few (0-5) red eggs with *Anagrus* - 4th leaf with 4-12 juveniles - 3rd leaf with 2-6 juveniles - 2nd leaf with 1-2 juveniles - 1st leaf with 0-2 exuviae.

Typhl. 709 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Zea mays* (farm Mussa near Retorto): maize plants with 11-12 leaves; sown on Sunday 10-VI-84, irrigated field, luxuriant crop, no more maize nearby - Adults: 4-5 per plant - 1st-5th leaf depigmented (a little less

than in Typhl. 708) - 1st-5th instar juveniles and the very first emergences - Eggs parasitized by *Anagrus* (5-25 per leaf) - very big plot: uniform depigmentation.

Typhl. 711 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Istituto Scienza Coltivazioni) - 2-VIII-84 - H.P. *Zea mays* - (Cfr. Typhl. 690) - Plant with the male inflorescence just emerged (16th-18th effective leaf, 14th-15th apparent leaf) and the ear appearing or just appeared (10th-11th effective leaf, 8th-9th apparent one): 2nd ear? - H 18: sunset - 1st collecting by sweepnet at m 1-1.5 on a sunny row: 10♂♂ 3♀♀; 2nd collecting by sweepnet at m 1-1.5 on internal rows 3♂♂ 9♀♀ - newly emerged *Z. pullula* adults - ♂♂ ♀♀ ratio 1:1 - Several matings (**Sketch**) - 3-5 adults per plant - First sparse adults blocked by entomoparasitic fungi: 3 individuals with *Cladosporium cladosporioides* (det. Istituto Microbiologia) - No dryinidized or pipunculidized adults - ♀♀ with a swollen abdomen contain mature eggs: 6-8 per ♀ - Presence of juveniles of all instars: 1st instar on many leaves, including 4th-5th ones (still green); 4th and 5th instars also on all leaves, above all on the 4th-7th ones - Eggs parasitized by *Anagrus* still present - In many cases there is only the emergence hole - Counting in the field on 15 leaves: 3rd with 2 juveniles; 4th with 5 juveniles; 5th with 15 juveniles, 3 eggs with *Anagrus*; 6th with 9 juveniles, 2 eggs with *Anagrus*; 7th with 4 juveniles, 1 egg with *Anagrus*; 8th with 7 juveniles, 1 egg with *Anagrus*; 9th with 5 juveniles; 10th with 7 juveniles and 1 egg with *Anagrus*; 11th with 2 juveniles; 12th with 3 juveniles; 14th with 1 juvenile - Countings in the laboratory (joint sheet).

Typhl. 712 - PIEDMONT - Carignano-La Loggia (TO) - 2-VIII-84 - H.P. *Zea mays* - (Cfr. Typhl. 728) - Plants with the male inflorescence and the ear just appeared. Situation like in Typhl. 711 - Plants with 13-14 developed leaves: 4th and 5th leaf very depigmented; 6th and 7th very depigmented, 8th-10th poorly depigmented, eggs with mymarids - Plants with 9-11 developed leaves - Depigmentations - Adults and juveniles - Graduality of infestations: situations similar to those of Poirino (Typhl. 706), Quattordio (Typhl. 707), Predosa (Typhl. 708) - 2nd sowing plants with 4-5 leaves - First depigmentation traces - Adults arrived from other maize - Countings in the laboratory (joint sheet).

Typhl. 715 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Zea mays* (in the zone Boschi, in a maize field; among vineyards, wheat stubble and woods) - (Cfr. Typhl. 671: Predosa 23-IV-84): 14♂♂ 10♀♀ not prepared - 2nd sowing maize plants with 9-11 leaves (close to the appearance of the male inflorescence); 1st-3rd leaf withered or dry; 4th-5th-6th leaf very depigmented; 7th-8th leaf rather depigmented (phot.) - Sample plant examined in the laboratory: 3 joint sheets - *Anagrus* (Arnò) - Farm Mussa (Cfr. Typhl. 709, 734) - Sown on Sunday 10-VI-84 - Plants with the male inflorescence still enveloped or appearing - 1st-3rd leaf dry - 4th-5th-6th-7th leaf very depigmented - 8th-9th leaf depigmented - 10th-12th leaf with depigmentation traces - Newly emerged adults (phot.) - Sample plant examined in the laboratory - Joint sheet - *Anagrus* (Arnò) - Marietta's field (Cfr. Typhl. 708) - 2nd sowing with the ear appearing - 4th-5th-6th-7th leaf very depigmented - Newly emerged adults (phot.) - Field of Paolino's son - 2nd sowing - Male inflorescence and ear already appeared - Heavy depigmentation - Sample plant examined in the laboratory - Joint sheet.

Typhl. 716 - PIEDMONT - San Benigno Canavese (TO) - 12-VIII-84 - (Area near the river Malone) - H.P. *Zea mays* (information from the farmer) - !!! 1st field: sown on

25 April (before the rain), 5th-6th-7th leaf very depigmented. Proximal part of the 6th leaf showing: *Anagrus* emergence holes and *Z. pullula* hatching holes of a generation (A), *Z. pullula* healthy eggs and parasitized by *Anagrus* (red) of another generation (B) - (13-VIII-84, phot. hatching neanid affected by an entomoparasitic fungus) - 2nd field: sown on 22 June (phot.): presence of sparse plants, with 9-10 leaves (the 5th one with eggs parasitized by *Anagrus*) and relatively thick plants, with 4-5 leaflets (born later, delayed for drought).

Typhl. 724 - PIEDMONT - Quattordio (AL) - 9-IX-84 - H.P. *Zea mays* - (Cfr. Typhl. 678, 10-VI-84; 686, 24-VI-84; 695, 8-VII-84) still very green plants heavily infested by plant suckers: presence of about 10 adults and 30 juveniles (of the different instars) per plant - I collected 16♂♂ 29♀♀ dry - Specimens blocked by entomoparasitic fungi - Table:

Spring sowing			
leaf	Lower page	Upper page	total
1	1	-	1
2	2	-	2
3	1	-	1
4	1	-	1
5	1	-	1
6	-	1 (phot.: white)	1
7	-	1	1
8	1	-	1
9	2	-	2
10	1	1	2
total	10	3	13

Summer sowing (<i>Lema</i> !)			
1	2	-	2
2	3	1	4
3	1	1	2
4	1	-	1
5	1	-	1
6	-	1	1
7	-	1	1
8	1	-	1
9	1	-	1
10	1	1	2
total	11	5	16

Typhl. 725 - PIEDMONT - Predosa (AL) - 9-IX-84 - H.P. *Vitis vinifera*: 2♀♀ not prepared - *Malacocoris chlorizans*: 6 specimens not prepared - *Chrysopa perla*: 1 specimen not prepared. The specimens of *Zygina*, *Empoasca*, *Scaphoideus*, and *Malacocoris* are used by dr Arnò for rearings.

Typhl. 728 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 15-IX-84 - H.P. *Zea mays* (cfr. Typhl. 711, 2-VIII-84; 732) delayed spring sowing, plants still very luxuriant - No aphids - Abundance of *Tetranychus urticae* and its natural enemies: *Stethorus punctillum* (larva and pupae); anthocorids (nymphs and adults); coniopterygids (cocoons with pupae); spiders - typhlocybines: *Zyginidia pullula* - A remarkable action by entomoparasitic fungi: counting of adults blocked on the leaves of 12 plants; plant A: 1, 2, 3, 4 (dry), 5 (1), 7 (2), 8 (2), tot. 5; plant B: 1, 2, 3, 4 (dry), 5 (1), 6 (2), 7 (3), 9 (1), 11 (1), tot. 8; plant C: 1, 2, 3, 4 (dry), 5 (1), 7 (1), 9 (1), 10 (1), 12 (1), tot. 5; plant D: 1, 2, 3, (dry), 4 (1), 6 (1), 7 (1), 8 (2), 9 (3), 11 (1), 12 (2), 13 (1), tot. 12; plant E: 1, 2, 3, 4 (dry), 5 (1), 6 (2), 7 (1), 8 (3), 9 (4), 10 (1), 11 (2), 12 (2), tot. 16; plant F: 1, 2, 3, (dry), 4 (1), 5 (2), 6 (2), 8 (3), 9 (1), 10 (2), 11 (3), 12 (2), 13 (1), 15 (2), tot. 19; plant G: 1, 2, 3, 4 (dry), 5 (1), 7 (1), 8 (2), 9 (2), 11 (1), 12 (2), 13 (3), tot. 12; plant H: 1, 2, 3, (dry), 4 (1), 5 (3), 6 (3), 7 (4), 8 (3), 9 (1), 10 (2), 11 (1), 12 (2), 13 (1), tot. 21; plant I: 1, 2, 3, 4 (dry), 5 (1), 6 (2), 7 (2), 8 (3), 9 (1), 12 (1), 13 (2), 14 (1), 15 (1), tot. 14; plant L: 1, 2, 3, 4 (dry), 5 (1), 6 (1), 7 (3), 8 (2), 9 (2), 10 (1), 11 (1), 12 (1), 13 (2), tot. 14; plant M: 1, 2, 3, (dry), 4 (1), 5 (2), 6 (2), 7 (3), 8 (1), 9 (2), 10 (1), 11 (1), 13 (1), tot. 14; plant N: 1, 2, 3, 4 (dry), 5 (2), 6 (3), 7 (3), 8 (2), 9 (1), 10 (3), 11 (2), 12 (2), 13 (1), tot. 19 - Also a *Psammotettix* adult was blocked. No *Zyginidia* juveniles are blocked - No *Empoasca solani* specimens are blocked. 20 maize leaves with *Z. pullula* specimens blocked by fungi and collected for prof. Ozino-Marletto. Table:

Leaves	Lower page	Upper page	Tot.
1	1	-	1
2	-	1	1
3	1	-	1
4	1	-	1
5	1	-	1
6	3	-	3
7	1	-	1
8	1	-	1
9	3	-	3
10	4	-	4
11	3	-	3
12	2	1	3
13	2	-	2
14	-	1	1
15	1	-	1
16	1	-	1
17	3	-	3
18	1	-	1
19	2	-	2
20	1	-	1
total	32	3	35

I collected in the middle of the maize field: *Z. pullula* (3♂ ♂ 2♀ ♀), *Empoasca solani* (3♂ ♂ 10♀ ♀) in 4 sweeps.

Typhl. 732 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 20-IX-84 - H.P. *Zea mays* - (Cfr. Typhl. 728) - 3 sweeps in the middle of the field: *Z. pullula* 1♂ 2♀ ♀, 1 nymph; *Empoasca solani* 2♂ ♂ 4♀ ♀; *Mocystia crocea* Herrich-Schäffer 1♂ 1♀ - Cfr. also counting by Arnò of 20 plants. Counting of *Z. pullula* blocked by entomoparasitic fungi + *Z. pullula* healthy (newly emerged) + nymphs on 3 maize plants (2 in the middle of the field and one on the edge). Table:

Leaves	Plant A	Plant B	Plant C
1	Dry	Dry	Dry
2	Dry	Dry	Dry
3	Dry	Dry	Dry
4	3	3	1
5	3	4	1
6	2	-	-
7	4	3	1
8	2	2	2
9	11	9	-
10	7	4	2
11	1	1	-
12	-	2	-
13	1	1	-
Tot. blocked	34	29	7
Tot. alive	4 + 1 nymph	5 + 1 nymph	1 nymph

N.B.: 1♂ of *Empoasca solani* blocked by a fungus.

Typhl. 733 - PIEDMONT - Carignano-La Loggia (TO) - 20-IX-84 - H.P. *Zea mays* (herbage with plants 30-35 cm tall) (5-6 leaves) - Leaves with first depigmentations - One sweep: 3♂ ♂ - *Empoasca solani* 1♂ 1♀, *Macrosteles sexnotatus* 1♂ 1♀ not prepared.

Typhl. 734 - PIEDMONT - Predosa (AL) - (Material used by Arnò) - 23-IX-84 - H.P. *Vitis vinifera* (Paolino's vineyard): 4♀ ♀ not prepared - Farm Mussa - H.P. *Zea mays* - (Cfr. Typhl. 709, 715) - Plants relatively poorly depigmented on the borders, along roads and ditches, but very attacked starting from the third and fourth row. Counting of *Z. pullula* blocked by entomoparasitic fungi + healthy *Z. pullula* (newly emerged) + nymphs on five plants: 1 on the border and the others towards the middle. Table:

leaves	Plants				
	A	B	C	D	E
1	Dry	Dry	Dry	Dry	Dry
2	Dry	Dry	Dry	Dry	Dry
3	Dry	Dry	Dry	Dry	Dry
4	1	11	7	5	4
5	4	12	11	12	11
6	2	13	9	11	9
7	3	6	13	9	13
8	3	7	15	13	14
9	4	14	8	18	16
10	1	8	11	16	22
11	2	9	13	11	13
12	-	13	10	9	8
13	1	3	5	7	5
14	-	3	3	2	3
15	-	4	3	1	1
16	-	1	1	1	2
total	21	104	109	115	121
alive	9 + 5 nymphs	24 + 10 nymphs	18 + 8 nymphs	15 + 10 nymphs	13 + 10 nymphs

Specimens with fungi given to prof. Ozino for determination - In spite of the strong mortality caused by fungi, the activity of the adults (newly emerged) and nymphs is remarkable - I collected with 4 sweeps: 12♂♂ 16♀♀ - Coniopterygid cocoons (dr Navone).

Typhl. 741 - PIEDMONT - Predosa (AL) - 7-X-84 - H.P. *Zea mays* (farm Mussa) - (Cfr. Typhl. 709, 715, 734) - Sowing 6-VI-84 - Plants still very green, with 2-3 basal leaves (apparent) still in part green. H 11 a.m., muddy field, but good vegetation for observations: apical leaves (last 3-5) with a lot of dew (or condensation) on the lower page and therefore not visited by the leafhoppers. Possibile use of the sweepnet on the vegetation up to m 1.70 - I collected with 2 sweeps: *Z. pullula* 9♀♀, *Empoasca solani* Curtis 10♀♀ not prepared - (Cfr. Typhl. 734). Table:

Leaves	Plants	
	A	B
1	-	-
2	-	3
3	9	19
4	10	16
5	15	18
6	18	8
7	22	21
8	25	19
9	11	4
10	4	2
11	-	2
total	114	112
alive	2 + 2 nymphs	2 + 1 nymph

Some adults with a white micelium (*Verticillium*!) - 2 specimens dry.

Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Zea mays* (waxy ripening phase) (I collected in the middle of the field): 1♂ 8♀ ♀ not prepared - Many adults blocked by fungi - H.P. *Triticum aestivum* (*vulgare*) 10 cm tall (next to the maize field): 7♂ 21♀ ♀ - No adults blocked by fungi - Plot of *Dactylis glomerata* and *Trifolium repens*: 3♂ 10♀ ♀ - No adults blocked by fungi - Plot of *Trifolium pratense*: 2♂ 8♀ ♀ - No adults blocked by fungi - Heading with Gramineae and dicots bordering on the maize field: 1♂ 7♀ ♀ - H.P. *Zea mays* (herbage between Carignano and La Loggia) - (Cfr. Typhl. 733): 3♂ 6♀ ♀ not prepared and no adults blocked by fungi.

Typhl. 744 - PIEDMONT - Piossasco (TO) - (To Stupinigi) - (Joint sheet, dr Arnò's countings) - 14-X-84 - h 11 - H.P. *Zea mays* (2nd sowing) summer sowing - Ear ripening - Dry bract - Leaves (except 2 or 3 basal ones) still green - Abundant dew on the ground and on the lower page of subdistal leaves (starting from the sixth before the last) - Very depigmented leaves - Few adults still present - Few 3rd, 4th, 5th instar juveniles - Few adults blocked by fungi (*Anagrus atomus*: still present as pupa) - Some *Empoasca solani* - See phot. - Attacked the 1st-4th row, near the pylon (with wasteland, also the 5th-8th row) - phot. also wild plants along the heading - Mycoplasma?, near the pylon (road Stupinigi-Frossasco) - I collected on Gramineae near the pylon (*Agropyron*, *Panicum*, *Setaria*) and on maize: 4♂ 2♀ ♀ not prepared.

Typhl. 745 - PIEDMONT - Orbassano (TO) - (Bypass) - 14-X-84 - H.P. *Zea mays* (herbage 40 cm tall) (plants with 6-7 rather yellowish leaves): 4♂ 1♀ not prepared. Not depigmented leaves (plenty *Panicum*, *Setaria* and other Gramineae) - H.P. *Zea mays* (plants with 10 leaves) (1-1.10 m tall) very luxuriant 2nd sowing but too late (far from earing) - Very attractive for *Z. pullula* and *E. solani* - No other Auchenorrhyncha - Leaves depigmented only by adults - No eggs and juveniles - I collected: 1st glass tube 10♂ 20♀ ♀, *Empoasca solani* 5♂ 6♀ ♀; 2nd glass tube 5♂ 19♀ ♀, *E. solani* 9♂ 1♀ - H.P. *Zea mays* (2nd sowing, just after blossoming, thriving, with very green leaves, the basal ones too) - Plants with 13-15 leaves - Ear near the 7th-9th leaf - Very depigmented leaves - Very few adults and no juveniles on the border - In the middle of the field there are many adults and also juveniles: 3rd, 4th and 5th instars - Presence also of eggs with *Anagrus* pupae - Few adults affected by fungi - I collected: 4♂ 8♀ ♀, *E. solani* 1♂ 2♀ ♀.

Typhl. 746 - LOMBARDY - Rovescala (PV) - May-June 1984 - Material in alcohol - Leg. prof. Domenichini - San Rocco al Porto (LO) - 2-VII-84 - H.P. maize: 4♂ 4♀ ♀ in alcohol.

Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - PIEDMONT - Roasenda (VC) - 25-IX-77 (heathland): 1♂ 1♀ - 5-VI-77 (heathland): 1♂.

Typhl. 750 - PIEDMONT - Carignano (TO) - 1-V-85 - H.P. *Zea mays* (the bigger plants have 3-4 leaves): no *Z. pullula* - H.P. wild Gramineae and wheat: few depigmentations and few juveniles.

Typhl. 751 - PIEDMONT - Casal Cermelli (AL) - (Portanova) - 5-V-85 - H.P. *Zea mays*

(plants with 3-4 leaves without traces of *Z. pullula*). Phot. field and plantlets healthy - (Cfr. Typhl. 757).

Typhl. 757 - PIEDMONT - Casal Cermelli (AL) - (Portanova) - 9-VI-85 - H.P. *Zea mays*: no adults found. Plantlets with 4-5 leaflets. First depigmentations on the second and third leaf, but only one plant out of about 10 is involved. Phot. field and plantlets with depigmentations.

Typhl. 758 - PIEDMONT - Castellazzo (AL) - River Bormida - 9-VI-85 - H.P. *Zea mays* - (Cfr. Typhl. 763): 4♂♂ 15♀♀ not prepared, 11 of which of the previous generation - Plants with 9 leaves: depigmentations up to the 7th and 8th - Healthy eggs or with *Anagrus* pupa like in the joint sheet (counted by P. Mazzoglio).

Typhl. 763 - PIEDMONT - Predosa-Castellazzo (AL) - River Bormida - 23-VI-85 - (Cfr. Typhl. 758) - H.P. *Zea mays*: 3♂♂ 11♀♀ not prepared - *Empoasca solani* 1♂ 3♀♀ - Maize plants with 13 leaves - Depigmentations up to the 10th-11th leaf - Healthy eggs or with larva or pupa of *Anagrus* like in the joint sheets (counted by P. Mazzoglio: 3 plants) - Plants tillered! with 2-3 shoots: poorly depigmented leaves and without eggs - barnyard grass plantlets; depigmented leaves; healthy eggs or with *Anagrus* (joint sheet).

Typhl. 768 - PIEDMONT - Castellazzo-Casal Cermelli (AL) - (Bridge on the Bormida) - 7-VII-85 - H.P. *Zea mays*: ♂♂ ♀♀ not prepared - Plants with 15 leaves; 2nd-5th leaf with depigmentations (not many) - Plants with small parts of the sheath torn! - Leaves with eggs and *Anagrus* - Table eggs with *Anagrus*:

Leaf	<i>Anagrus</i>		Eggs	
	sheath	blade	sheath	blade
1	1	23	-	32
2	-	5*	-	37**
3	5***	9****	-	10*****

* + 4 emergence holes - ** + 17 emergence holes - *** + 3 emergence holes - **** + 4 emergence holes - ***** + 3 emergence holes.

Typhl. 770 - VENETIA - Costozza - Longare (VI) - 9-VII-85 - h 16-18 - Farm Conte Alvise da Schio - 60 fields (25 ha) - H.P. *Zea mays* - 15th-16th leaf beginning of male flowering - 2-4 proximal leaves depigmented - *Anagrus*!: ♂♂ ♀♀ not prepared.

Typhl. 773 - VENETIA - Ponte di Barbarano (VI) - 2-3 Km more southwards towards Rovolon (PD) - 10-VII-85 - h 9-10 - H.P. *Zea mays*: *Z. pullula* scarcely represented - Depigmentations on 3rd and 4th leaf (plants with 15-16 leaves) no wastelands with wild Gramineae.

Typhl. 784 - PIEDMONT - Caluso (TO) - (Briamara) - 20-VII-85 - h 19-20 - H.P. *Zea mays* - Male inflorescence appeared, the female one appearing - Plants with 16 leaves, ear at the tenth leaf - 1st-4th leaf poorly depigmented; 5th-6th leaf with depigmentation traces - Presence of neanids and nymphs - Adults on the 6th-7th-8th-9th leaf (4-5/8-10 per plant) - Maize in general from Chivasso to Caluso: ear just appeared or appearing - 2nd sown maize: field with plantlets at the 5th leaf: first depigmenta-

tions - Fields with plants at 7th-8th leaf: medium infestations.

- Typhl. 787 - PIEDMONT - Quattordio-Felizzano-Solero (Partisans' plaque) (AL) - 21-VII-85 - h 11 - H.P. *Zea mays*: scarcely irrigated - Beginning of blossoming - Plants with 16-19 leaves: 10-13 before the main ear, 6 after the ear - 4 proximal leaves dry; 5-8 very depigmented; 9-13 poor depigmentation; 8-10 adults per plant.
- Typhl. 789 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-VII-85 - h 19-19,30 - H.P. *Zea mays* (irrigated) - Beginning of blossoming - (Cfr. Typhl. 728) - Plants with 16-18 leaves - 9-13 leaves before the main ear - Proximal leaves still green: 1-5 very depigmented; 6-7 poorly depigmented; 8-9 scarcely depigmented: ♂♂ ♀♀ not prepared - No adults parasitized by fungi.
- Typhl. 790 - PIEDMONT - Casal Cermelli (AL) - (Farm Campagna) - 21-VII-85 - h 19,30-20 - H.P. maize (without furrowing) - Sprinkle irrigation - Hail effect on basal leaves - Few depigmentations, also on proximal leaves, still green but frayed - Plants with 16-17 leaves: 1-2 (3) ears - 9-11 leaves before the main ear, 6 leaves after the last ear: 2♂♂ 9♀♀.
- Typhl. 794 - PIEDMONT - Turin - 25-VII-85 - H.P. *Zea mays* (cultivated in greenhouse), hybrids in the laboratory - Reared by P. Mazzoglio - *Z. scutellaris* (Sardinia, Typhl. 752) x *Z. pullula* (Piedmont) - **Drawings** of genital appendages of the reared hybrids.
- Typhl. 810 - PIEDMONT - Bosconero (TO) - 11-VIII-85 - H.P. *Zea mays*: ♂♂ ♀♀ + juveniles not prepared - Plants 10-15 days after flowering - 1st-2nd leaf dry - 3rd-5th leaf with depigmentations - Presence of eggs parasitized by *Anagrus* - No individuals affected by Entomophthoraceae.
- Typhl. 810 bis - PIEDMONT - Castellazzo Bormida (AL) - (River) - 15-VIII-85 - H.P. *Zea mays* (field with no more tillered plants) remarkable depigmentations up to the 5th leaf (1st-2nd leaf dry), depigmentations gradually less in the following leaves with traces even of the 16th (last) - Adults: about 10-12 per plant. Generally 2-3 per leaf the 6th and 7th - Presence of juveniles of all instars - Eggs parasitized by *Anagrus* - Presence of adults blocked by *Verticillium*! (prof. Ozino); even 3 on the 7th and 8th leaf; altogether even 10 per plant - Field nearby, less irrigated, not so infested and without blocked adults - phot. infestation by *Tetranychus urticae* with *Stethorus punctillum* - (Cfr. Typhl. 763).
- Typhl. 811 - PIEDMONT - Casal Cermelli (AL) - (Farm Campagna) - 15-VIII-85 - H.P. *Zea mays* (irrigated field, but with sparser plants); remarkable infestation like above, but without blocked adults.
- Typhl. 812 - PIEDMONT - Poirino (TO) - 18-VIII-85 - H.P. *Zea mays* (plants flowering on 2-3 August). 1st and 2nd leaf dry; 3rd-4th-5th leaf very depigmented; 6th-7th leaf moderately depigmented; 8th-10th leaf scarcely depigmented; 11th-16th leaf (last) with depigmentation traces - Adults about 10 per plant (2-3 on the 6th leaf) - Juveniles of all instars the 3rd-7th leaf. Considerable presence of *Tetranychus urticae* with *S. punctillum* larvae, pupae, adults + *Orius* - Counting eggs on the 5th leaf, cfr. joint sheet - H.P. *Zea mays*: plants with 14-15 leaves, still without male inflorescence and ear - Leaves all green - 1st-5th leaf very depigmented; 6th-7th leaf poorly depigmented - Counting of eggs on the 3rd leaf: cfr. joint sheet.

- Typhl. 816 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets Cadriano and Viadagola) - 24-VIII-85 - H.P. *Zea mays* (2nd sowing) - Considerable depigmentations on the 3rd-4th-5th leaf etc. - Depigmentations also on *Echinochloa crus-galli*: 7♂♂ 8♀♀ dry.
- Typhl. 821 - EMILIA-ROMAGNA - Gualdo di Meldola (FC) - 25-VIII-85 - m 105 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated - Observations on the sides of 2 maize rows cut for the passage of the irrigation pipe: heavy infestations by *Zyginidia* - 1st-2nd leaves dry; 3rd-4th-5th very depigmented. Very heavy parasitization by *Anagrus atomus*: sampling of a 5th leaf: 1,731 eggs (217 + 212 ...) 1,617 of which parasitized - Counted by dr Arnò (joint sheet by dr Arnò) - 11♂♂ dry - H.P. *Phragmites australis*, along a shaded ditch next to maize: 5♂♂ 2♀♀ dry - **Drawing** of aedeagus and upper pygofer appendages of a *Z. pullula* aberrant ♂.
- Typhl. 822 - EMILIA-ROMAGNA - Santo Marino (RN) - (Hamlet of Poggio Berni) - 25-VIII-85 - (Locality along the road Santarcangelo-S. Marino) - H.P. *Sorghum vulgare* (dwarf, ripening) with many dry leaves, on a hilly slope - phot. groups of plants with still green leaves, very frequented by *Zyginidia* spp. and dechlorophyllated: 5♂♂ + 3♂♂ with an atypical aedeagus dry + ♀♀ - *Zyginidia* spp.: 19♀♀ dry.
- Typhl. 826 - EMILIA-ROMAGNA - Morciano di Romagna (FO) - 26-VIII-85 - H.P. *Zea mays* (irrigated field) 1st-2nd leaf dry; 3rd-6th leaf remarkably depigmented, 7th-8th leaf very depigmented, 9th-10th leaf still depigmented, 11th-16th leaf with depigmentation traces - I collected 5 leaves (5th leaf for *Anagrus*) - (Cfr. Typhl. 506, 507, 820, 821): 1♂ dry.
- Typhl. 827 - PIEDMONT - Poirino (TO) - 1-IX-85 - H.P. *Zea mays* (1st sowing) - Field similar to that of Typhl. 812 but with much more ripe plants - 6-7 prossimal leaves dry - Adults on the following leaves - Traces of a heavy infestation by *T. urticae* - H.P. *Zea mays* (2nd sowing) -2-3 basal leaves dry - Ear on the 8th leaf! - Total 12 leaves - phot. heavy depigmentations on 3rd-7th leaf - Depigmentation traces up to the 12th leaf - 3rd-4th sheaths with *Anagrus* emergence holes - Some *Z. pullula* eggs also in the last (12th leaf) - Pupae (reddish of *Anagrus* on all leaves) - Countings on sheet of Typhl. 828.
- Typhl. 828 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 1-IX-85 - H.P. *Zea mays* (1st sowing) - 1st-3rd leaf dry - Heavy depigmentations in the 4th-5th-6th leaf - Traces also on apical leaves - Adults: 10-15 per plant - Adults blocked by fungi: few. Heavy infestations on weeds: *Echinochloa crus-galli* and *Digitaria sanguinalis* - Heavy attacks by *T. urticae* with *S. punctillum* - Countings of eggs: joint sheet - I collected on *Digitaria* and *Echinochloa* in maize: 3♂♂ 2♀♀.
- Typhl. 830 - PIEDMONT - Stupinigi (TO) - 8-IX-85 - H.P. *Zea mays* (farm between the 2 woods of Stupinigi) - Crops along the road Turin-Pinerolo - Irrigated fields - 1st-3rd leaf dry; 4th-6th leaf more or less dry, but with obvious *Anagrus* emergence holes - Leaf blade very depigmented (even 30-40%), no *T. urticae* or nearly - Presence of juveniles besides eggs (hatched, to hatch, with *Anagrus* or with *Anagrus* holes) - 7th-8th leaf remarkably depigmented; 9th-16th leaf very depigmented - Adults and juveniles abundant - 8th-12th leaf: 3-10 adults blocked by *Verticillium lecani* - 6th-7th leaf with blocked adults given to prof. Ozino - Contings of eggs and *Anagrus* in the joint sheet: dr Arnò.

- Typhl. 833 - PIEDMONT - Castellazzo Bormida (AL) - (River) - 15-IX-85 - H.P. maize (still green because always irrigated) (in nearby fields: dry) - 7th-10th leaf collected by night - *Zyginidia* blocked by *Verticillium*: maximum 8 per leaf, altogether 37 specimens given to prof. Ozino.
- Typhl. 834 - PIEDMONT - Predosa (AL) - 15-IX-85 - H.P. grapevine (ripe grapes): still green leaves on the best plants, towards reddening in Barbera, Dolcetto, and Freisa - Paolino's vineyard: 9♂♂ 8♀♀.
- Typhl. 838 - PIEDMONT - Predosa (AL) - 29-IX-85 - H.P. grapevine: 10♀♀ approx. *Chrysoperla carnea*: 8 - *Oecanthus pellucens*: 1♂ 1♀, released in the arboretum and not reared because not so healthy.
- Typhl. 850 - PIEDMONT - Predosa (AL) - 15-VIII-86 - H.P. *Zea mays* - Counted specimens blocked by fungi; dr Arnò - ♂♂♀♀.
- Typhl. 853 - PIEDMONT - Carignano (TO) - 20-VIII-86 - H.P. *Zea mays*: ♂♂♀♀ not prepared.
- Typhl. 854 - PIEDMONT - La Loggia (TO) - 20-VIII-86 - H.P. *Zea mays*: ♂♂♀♀ not prepared.
- Typhl. 855 - PIEDMONT - Beinasco-Volvera (TO) - 30-VIII-86 - H.P. *Zea mays* - 17-18 leaves: 35♂♂ with fungus (2♂♂ dead), 43♀♀ with fungus (2♀♀ dead) - Countings by Rolfo - H.P. herbage *Zea mays* with *Sorghum vulgare*: 23♂♂ 10♀♀ not prepared.
- Typhl. 856 - PIEDMONT - Romano Canavese (TO) - 19-IX-86 - Leg. Alma, Arnò - H.P. *Zea mays*: ♂♂♀♀ not prepared.
- Typhl. 857 ter - PIEDMONT - Predosa (AL) - 21-IX-86 - H.P. *Vitis vinifera* (Capriata and Paolino's vineyards): 1♂ 5♀♀ not prepared - *Chrysoperla carnea*: 1♀.
- Typhl. 858 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-IX-86 - H.P. *Zea mays*: 16♂♂ 24♀♀ not prepared - 1♀ blocked by fungus within 24 h ? prof. Ozino - *Z. pullula* blocked by fungi on leaves: 131♂♂ 236♀♀ (counting by dr Alma: joint sheet).
- Typhl. 869 - VENETIA - Nanto (VI) - 26-IX-86 - H.P. *Vitis* (Cozza Aldo's farm) - Pinot bianco: BN or FD symptoms? - Rolling, vein yellowing, bunches with withered grapes: canes for cuttings - (!! *Planococcus citri*: honeydew) - 2♂♂ 2♀♀ - Treatments - Sauvignon (white) - *Phylloxera*.
- Typhl. 879 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Zea mays* (11th-18th leaf green) - Blocked by Entomophthoraceae: see joint countings by dr Alma - 5♂♂ 28♀♀.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 2♀♀.
- Typhl. 881 - PIEDMONT - Staffarda-Revello (CN) - 19-X-86 - H.P. *Zea mays*: plants in bloom, with 16-18 leaves still - Very few ♂♂♀♀ adults not prepared - Proximal leaves scarcely depigmented; 5th-10th leaf and following ones not depigmented.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected in Este (PD) on maize on 24-VII-86: 2♂♂ 2♀♀ - H.P. potato: 3♀♀.
- Typhl. 901 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 19-VII-87 - H.P. maize; male inflorescence appearing - Female inflorescence (ear) hinted - Plant A: 1st-2nd leaf dry; 3rd-4th-5th leaf green; 6th! *Z. pullula*; 13th ear; 19th male flower - Plant B: 1st-2nd leaf dry; 3rd-4th leaf green; 5th-6th leaf *Z. pullula*; 12th ear; 18th male flower - Plant C: 1st-2nd leaf dry; 3rd-4th leaf green; 5th-6th leaf *Z. pullula*; 12th ear; 18 male flower

- Plant D: 1st leaf dry; 2nd-3rd-4th leaf green; 5th-6th leaf *Z. pullula*; 12th ear; 19 male flower - *Z. pullula*: 5th-6th-7th leaf very depigmented.
- Typhl. 902 - PIEDMONT - Castellazzo Bormida (AL) - 19-VII-87 - (Bridge on the Bormida) - H.P. maize (plants in bloom); Plant A (on the margin of the field): 1st-2nd leaf dry; 3rd-4th leaf green; 5th leaf *Z. pullula*; 9th ear; 13th (other cases with a maximum of 10 or 15) male flower - Plant B (in the middle): 1st-2nd leaf dry; 3rd-4th leaf green; 5th leaf *Z. pullula*; 10th-11th ear; 16th male flower - Plant C (in the middle): 1st leaf dry; 2nd-3rd-4th leaf green; 5th leaf *Z. pullula*; 10th-11th ear; 16th male flower - Plant D (in the middle): 1st-2nd-3rd leaf dry; 4th leaf green; 5th leaf *Z. pullula*; 10th-11th ear; 16th male flower - 5th-6th-7th leaf very depigmented - Plants with the male flower appearing and the ear hinted - Plant A: 1st-2nd-3rd leaf dry; 4th leaf green; 5th leaf *Z. pullula*; 12th-13th ear; 19th male flower - Plant B: 1st-2nd-3rd leaf dry; 4th leaf green; 5th leaf *Z. pullula*; 12th-13th ear; 19th male flower - Plant C: 1st-2nd-3rd leaf dry; 4th leaf green; 5th leaf *Z. pullula*; 12th-13th ear; 19th male flower - 5th-6th-7th leaf very depigmented.
- Typhl. 903 - PIEDMONT - Portanova (AL) - 19-VII-87 - (Farm with 2 green silos - Sprinkling irrigation) - H.P. maize (plants with the male flower appearing - Very luxuriant) - Plant A: 1st-2nd-3rd leaf dry; 4th leaf green; 5th leaf *Z. pullula*; 12th-13th ear; 19th male flower - Plant B: 1st-2nd-3rd leaf dry; 4th-5th leaf green; 6th leaf *Z. pullula*; 12th-13th ear; 19th male flower - Plant C: 1st-2nd-3rd-4th leaf dry; 5th-6th leaf *Z. pullula*; 13th-14th ear; 19th male flower - Plant D: 1st-2nd-3rd-4th leaf dry; 5th-6th leaf *Z. pullula*; 13th-14th ear; 20th male flower - 5th-6th-7th leaf poorly depigmented.
- Typhl. 906 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. *Zea mays* (farm Mussa) - (Cfr. Typhl. 901) - Plant at milky ripening 19 leaves. Leaves: 6th most depigmented; 7th-8th-9th very depigmented - 3 samples of 6th leaf to dr Arnò - 7♂♂ 27♀♀.
- Typhl. 929 - VENETIA - Cordignano (TV) - 29-VII-88 - H.P. grass (vineyard regrazed, with Gramineae, *Convolvulus* with symptoms, a lot of mint) - No *Metcalfa*, no *Scaphoideus*, no FD symptoms - A lot of *Empoasca*: 1♂ not prepared.
- Typhl. 931 - VENETIA - Feltre (BN) - (Trento) - 29-VII-88 - H.P. *Zea mays* (1st and 2nd sowing), poorly depigmented - *Z. pullula* scarcely present.
- Typhl. 934 - LOMBARDY - Nuvolento (BS) - 30-VII-88 - H.P. maize (poorly depigmented) - *Z. pullula* scarce.
- Typhl. 935 - LOMBARDY - Manerbio-Cigole (BS) - 30-VII-88 - H.P. maize - *Z. pullula* very scarce.
- Typhl. 948 - SWITZERLAND - Cadenazzo (CH) - (Lugano) - (Vidano, Arzone, Alma) - Farm Ramello - Piano di Magadino - Agr. Eng. Enrico Alberto Fetknechi - H.P. *Zea mays* for the production of hybrids - Probable cases of MRDV - Considerable dwarfism (above all towards the heading) but above all no enations and root alterations - Samples: 4 plants (2♂♂ 2♀♀) given to prof. M. Conti (23-VIII-88) - Plants of *Digitaria sanguinalis* and *Panicum crus-galli* in surrounding wastelands, in ditches and also in maize crops - *Laodelphax striatella*: 2♂♂ 1♀ and *Macrostes sexnotatus*: 2♂♂ 1♀ + 3 nymphs (1 dryinidized) (to dr Alma) - *Z. pullula*: 6♂♂ 9♀♀ not prepared - Diagnosis by prof. M. Conti: 25-VIII-88, MRDV + Maize mosaic (transmitted by aphids) (the same of sugarcane) = Sugarcane Mosaic Virus

(once recorded by Lovisolo as *Sorghum* striate reddening) - 5-IX-88, I talked on the phone with Enrico Alberto Fetknechi on this virologic problem.

ZYGINIDIA ribauti Dworakowska, 1970

- Typhl. 107 - APULIA - San Giovanni Rotondo (FG) - Gargano - (Near the Convent) - m 600 - 5-VI-57 - H.P. wheat - (as *Erythroneura scutellaris* Herrich-Schäffer) (det. Vidano 1980) - Forma typica: 1♂ dry.
- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (Bed of the stream Deiva) - 16-VIII-57 - H.P. *Avena sativa* v *fatua* - (as *Erythroneura scutellaris* Herrich-Schäffer) - (det. Vidano 1980): 5♂♂ (2 dry, 3 in alcohol), 5♀♀ (1 dry, 4 in alcohol) - The appendages of the aedeagus differ from those drawn by Ribaut. (Cfr. Typhl. 50).
- Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of the pension Clelia) - 17-VI-II-57 - H.P. *Sorghum halepense* (leaves neatly depigmented) - (as *Erythroneura scutellaris* Herrich-Schäffer?) (det. Vidano 1980) - Appendages of the aedeagus different from those drawn by Ribaut - Several adults: 2♂♂ 2♀♀ dry - The eggs are laid like those of *Empoasca pteridis* (Cfr.) in wheat leaves, i.e. in the vein or close to it - H.P. *Sambucus ebulus* (low herbaceous plant), leaves neatly depigmented: several adults (22♂♂ 24♀♀): 3♂♂ 2♀♀ dry.
- Typhl. 165 - LIGURIA - Manarola (SP) - (Cinque Terre) - 18-VIII-57 - (as *Erythroneura scutellaris* Herrich-Schäffer) - (Det. Vidano 1980) - H.P. *Paspalum distichum* (along the stream, near the village) - ?several adults not prepared - H.P. *Parietaria officinalis* v *judaica* (on small walls, with mixed plants of *Potentilla* and various Gramineae) - ?*ribauti*: ♂♂♀♀ not prepared.
- Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - (Sorrento) - 8-IX-57 - H.P. wild Gramineae (*Erythroneura* n.sp. gr. *E. scutellaris*) - (as *Zyginidia ribauti*, Dworakowska 1970) - (Det. Vidano 1980): 1♂ 2♀♀ dry - (Cfr. Typhl. 179-181).
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Erythroneura*): 4♂♂ (1 dry, 3 in a plastic tube), 5♀♀ (3 dry, 2 in a plastic tube).
- Typhl. 289 - LIGURIA - Finale Ligure (SV) - 21-IX-59 - H.P. *Agrostis alba*, *Anthoxanthum odoratum*, *Andropogon ischaemum* and other Gramineae - (as *Erythroneura goidanichi* n.sp., Vidano 1959, gr. *E. scutellaris* Herrich-Schäffer) - (det. Vidano 1980): 9♂♂ (8 dry, 1 in alcohol), 10♀♀ (9 dry, 1 in alcohol) - Length mm 2.5-2.8 ♂♂, 2.7-3.0 ♀♀ - N.B.: see Matsumura S. - Journ. Coll. Sci. etc., Tokyo, XXIII/6, pp 4-5 - *Typhlocyba* (*Z. serpentina* n.sp.). **Drawings** of the aedeagus.
- Typhl. 292 - LIGURIA - Colle di Melogno (SV) - (Slope of Finale) - m 500-600 - 4-VIII-60 - H.P. *Bothriochloa* (*Andropogon*) *ischaemum* and other low Gramineae, under very sparse bushes of *Castanea* - (as *Erythroneura goidanichi* n.sp.) (det. Vidano 1980): 6♂♂ 10♀♀ dry. Phot. 8,330: ♂ dorsal; 8,331: ♀ dorsal; length: ♂♂ 2.5-2.8 mm - average 2.7 mm - ♀♀ 2.7-3.0 mm - average 2.8 mm - Body relatively darker than that of the following species (*Z. servadeii*, editor's note), pygofer lobes black in the ♀ (also ventrally and in the ♂) - (Cfr. Typhl. 289).
- Typhl. 314 - CALABRIA - Crotone - (Ente Riforma farm) - 8-VII-61 - H.P. *Glyceria flui-*

- tans*, *Festuca* sp., *Poa* sp. (along a ditch with water) - (as *Zygina ionica* n.sp. = *Z. aethalica*? = *Z. ?goidanichi*) ?forma *ionica* Vidano (det. Vidano 1980) - (Cfr. Typhl. 289): 4♂♂ 3♀♀ dry in a plastic tube - Length mm: ♂♂ 2.5-2.8, ♀♀ 2.8-3.2 - (*E. scutellaris* group) - Cfr. Ribaut 1947: *E. italica*, **drawings** of the aedeagus dorsal and lateral - In a nearby cane thicket of *Arundo donax* I did not find the above mentioned species - phot. 9,063: ♂ (2.7 mm); 9,064: ♀ (3.0 mm).
- Typhl. 423 - LIGURIA - Carpe (SV) - (Sella di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - H.P. various Gramineae: *Festuca spadicea* and ?*Carex*, *Poa tenuifolia*, *Bromus erectus* (sheltered by a drystone wall, cool environment) - (as *Zygina italica* Ribaut 1947 = *goidanichi* = *aethalica* Vidano): 3♂♂ dry - (Det. Vidano 1980) - ?var *ibrida* nova Vidano 1981.
- Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI)- 20-IX-62 - (Gully, near Ponti) - H.P. wild Gramineae - (as *Zygina aethalica* Vidano): 2♀♀ - (Cfr. Typhl. 427).
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. !*Festuca rubra*, *Bromus* sp. - (as *Zygina aethalica* n.sp., from Aethalia = ancient name of the Elba Island) - (*Z. scutellaris* group Ribaut): 1♂ 1♀ dry - 3 **drawings**, sketch of the upper pygofer appendages (**drawings** better in Typhl. 430) - (Cfr. Typhl. 289-430-437-476) - Very similar to *Z. goidanichi* Vidano (cfr. Typhl. 289), but the curving of the aedeagus is very marked, with the tooth near the gonopore; processes of the aedeagus without the proximal tooth - (Det. Vidano 1980).
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 ~, 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. !*Festuca rubra*, *Vulpia alopecuros* - (as *Zygina aethalica* Vidano) - (Det. Vidano 1980) - (Cfr. Typhl. 427): 1♀ dry.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro- Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. !*Festuca rubra*, *Vulpia*, ?*Agrostis* and other Gramineae (under a chestnut bush) - (as *Zygina aethalica* Vidano) - (Cfr. Typhl. 289-427-437) - (Det. Vidano 1980): 2♂♂ 2♀♀ dry. Length mm: ♂♂ 2.6-2.7, ♀♀ 2.8-2.9 - phot. 10,364: ♂; 10,365: ♀ - 3 **drawings**: aedeagus, upper pygofer appendages.
- Typhl. 434 - TUSCANY - Elba Island - Portoferraio (LI) - (Irrigated fields on the right of the road to Porto Azzurro, a little after the crossroad to Capoliveri) - 21-IX-62 - !!H.P. *Sorghum vulgare* and *Zea mays* (very depigmented proximal leaves) - (as *Zygina aethalica* Vidano): 3♂♂ 11♀♀ dry + juveniles - Length mm: ♂♂ 2.5-2.8, ♀♀ 2.8-3.2 - (Cfr. Typhl. 426 bis-427-428-430 and 289) - (Det. Vidano 1980).
- Typhl. 436 - TUSCANY - Elba Island - Pareti (LI) - (Beach of Capoliveri) - 21-IX-62 - H.P. Gramineae (*Bromus*, etc.) - (as *Zygina aethalica* Vidano): 1♀ dry - (Det. Vidano 1980).
- Typhl. 437 - TUSCANY - Elba Island - Capoliveri (LI) - (Locality about 4 Km far from the village. Along the left of the road leading to the iron mine between Monte Calamita and Pareti) - 21-IX-62 - (as *Zygina aethalica* Vidano) - H.P. *Bromus erectus* (isolated bushes here and there among *Inula viscosa* near the iron mines near the farm Ri-

Typhl. 577 - Tetti Grandana, Chieri, 21-IX-73
Frutteto dell' Ist. di Colt. v. erb. ora
P.O. *Corylus avellana*

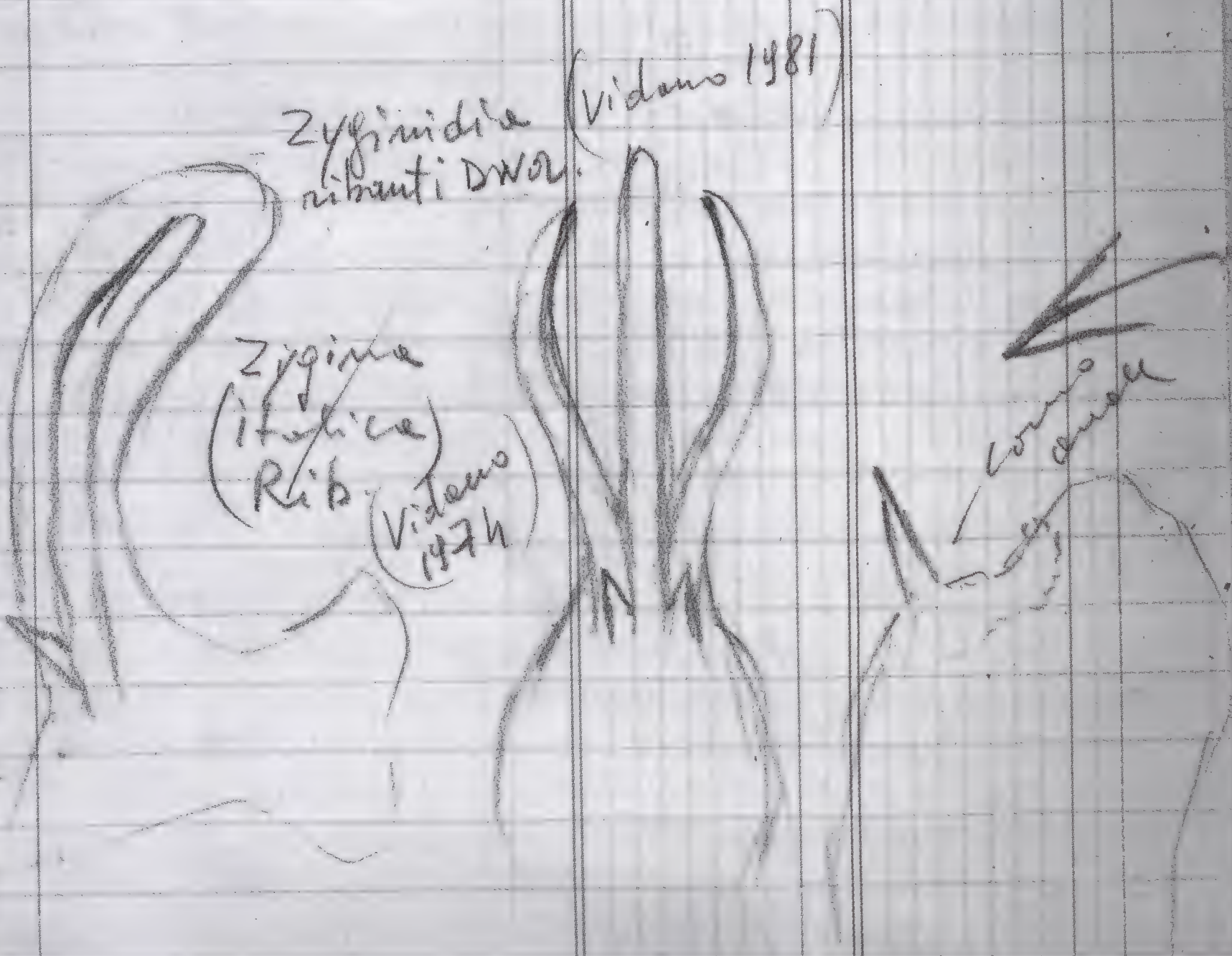


Fig. 17 - A notebook page with the sketches of the genitalia of *Zyginidia ribauti* Dworakowska

- palte, at about 10 Km from Capoliveri) - Depigmented leaves: 2♂♂ 6♀♀ dry - (Cfr. Typhl. 430) - Adults reared from nymphs (Det. Vidano 1980) - H.P. wild Gramineae (near a very small spring): 3♂♂ 4♀♀ dry - (Cfr. Typhl. 427, 430).
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Sorghum vulgare*, *Zea mays*, *Panicum crus-galli* - (as *Zygina ?scutellaris* Herrich-Schäffer): 1♂ 6♀♀ not prepared - 1♂ 1♀ dry.
- Typhl. 477 - UMBRIA - Spello (PG) - 22-IX-63 - H.P. *Festuca*, *Agrostis*, *Bromus* - (as *Zygina aethalica* Vidano): 7♂♂ 2♀♀ dry - (Cfr. Typhl. 289-437-478) - 2 **sketches** of the aedeagus.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - (as *Zygina aethalica* Vidano) - H.P. *Sorghum vulgare* (cultivated: herbage): 3♂♂ 3♀♀ dry - H.P. *Bromus*, *Festuca* (ditch in an erosion furrow slope exposed northwards): 1♂ 3♀♀ dry.
- Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821-822-826) - H.P. *Sorghum vulgare* (herbage), *Cynodon dactylon*, etc.: 2♂♂ 2♀♀ dry - H.P. various Gramineae (*Bromus*, *Festuca*, etc.) along a dry ditch and under small trees of *Populus*, *Quercus*, *Alnus*, etc.: 2♂♂ forma typica dry (1 **drawing**) + ♀♀ - (Det. Vidano 1981).
- Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2.200 ~ - (Close to the hotel) - 16-VIII-64 - H.P. *Poa alpina*, *Festuca elatior*, *Dactylis glomerata* - (as *Zygina ?italica* Ribaut): 1♂ dry.
- Typhl. 516 - TUSCANY - Abetone (PT) - m 1,200 - (Beechwood of the Tuscan slope) - 18-VIII-64 - H.P. *Dactylis glomerata*! - (as *Zygina ?italica* Ribaut): 2♂♂ dry.
- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope on the East of the Astronomic Observatory) - m 2,200 ~ - 26-VIII-64 - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens* (in the botanical gardens): 1♂ dry - (Det. Vidano 1981).
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - H.P. *Zea mays*: 1♂ dry - Prope forma *ionica* Vidano 1981.
- Typhl. 578 - LATIUM - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter reference no. 1,102 of 25-VI-74 - Ponza, Dragonara - 15-II-66 - (as *Zyginidia* sp.): 2♀♀ - 25-II-66 - 1♀ - Isola S. Stefano - 5-IV-66 - (as *Zyginidia italica*): 2♂♂ 3♀♀ - **Drawings** of aedeagus and upper pygofer appendix.
- Typhl. 611 - Prof. A. Servadei's collection - Museo Civico di Storia Naturale, Verona - Reclassification of 14 *Zyginidia* on loan from prof. Ruffo on 20-VII-81, already determined by Dlabola - TUSCANY - Florence - 11-VIII-48: ? 1♀ - CALABRIA - Roseto (CS) - 8-IX-59: 1♂ 3♀♀ - APULIA - Cagnano Varano (FG) - 20-VII-55: 1♂ - BASILICATA - Matera - 8-IX-59: 1♂ - Diagnosis of the 17 *Z. scutellaris* specimens I received on loan on 20-VII-81, already determined by Ribaut - CAMPANIA - Alfano (SA) - 26-V-61: ? 1♀ - LATIUM - Campoforogna-Terminillo (RI) - 16-VIII-49: 1♂.
- Typhl. 636 - Ferrari's collection - Museo Civico di Storia Naturale, Genova - 3-III-82 - LIGURIA - San Giuliano (GE) - 6-XII-1880: 2♂♂ (det. Vidano 1982).
- Typhl. 645 - LIGURIA - Ventimiglia (IM) - (Locality Calandre, among rocks, along the

seaside, beneath the hamlet Ville) - 20-VIII-82 - H.P. *Sorghum halepense*, *Lolium*, *Arundo donax*: 18♂♂ 18♀♀ dry - Presence of nymphs too - Very depigmented leaves - This species is likely present also on many other wild Gramineae, such as *Cynodon dactylon*, *Festuca* sp., *Avena* sp., etc. now dry (see Typhl. 646).

Typhl. 646 - LIGURIA - Sanremo (IM) - (Stream S. Romolo) - m 200 - Farm Mucci - Isola Superiore - 23-VIII-82 - H.P. *Zea mays*: 3♂♂ 3♀♀ not prepared - (See Typhl. 645).

Typhl. 821 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated - (Cfr. Typhl. 506-507) - observations on the sides of two maize rows cut for the passage of the irrigation pipe: heavy infestation by *Zyginidia* - 1st and 2nd leaf dry - Depigmented: 3rd, 4th, 5th a lot, 6th, 7th, 8th remarkably. Very high parasitization by *Anagrus atomus*: sampling of the blade of a 5th leaf; 1,731 eggs (217 + 212 ...) 1,617 of which parasitized - Counted by Arnò (leaf counting by dr Arnò) - 3♂♂ dry.

Typhl. 824 - REPUBLIC OF SAN MARINO - Fiorentino - 26-VIII-85 - H.P. *Zea mays* (small field, on the side of a vegetable garden. Advanced blooming. Remarkable depigmentation of the 3rd, 4th, 5th leaf): 9♂♂ 40♀♀ dry - ♀ with a swollen abdomen: 11 ovaric eggs. Phot. in the Institute 28-VIII-85: leaf sheath and blade (eggs and *Anagrus*).

Typhl. 825 - MARCHE - Pesaro and Urbino - (Mercatino Conca) - 26-VIII-85 - m 275 - Exit to Cattolica, along the stream Conca, dry - H.P. *Zea mays* (topped, ripening, with still green leaves. Small plot beside a vegetable garden) - 3rd, 4th, 5th leaf very depigmented: presence of eggs parasitized by *Anagrus* - 4♂♂ 10♀♀ dry.

Typhl. 826 - EMILIA-ROMAGNA - Morciano di Romagna (FO) - 26-VIII-85 - H.P. *Zea mays* (irrigated field) 1st-2nd leaf dry; 3rd-6th leaf remarkably depigmented, 7th-8th leaf very depigmented, 9th-10th leaf still depigmented, 11th-16th leaf with depigmentation traces - I collected 5 leaves (5th leaf for *Anagrus*) - (Cfr. Typhl. 506, 507, 820, 821): 14♂♂ dry. *Zyginidia* spp. gr. *ribauti*: 11♀♀ not prepared. Length of anaesthetized individuals: 10♂♂ mm 28; 10♀♀ mm 30.

ZYGINIDIA scutellaris (Herrich-Schäffer, 1838)

Typhl. 41 - PIEDMONT - Susa (TO) - (road to Ulzio) - 3-X-56 - In a sunny place, but very humid - H.P. irrigated polyphyte meadow in which there is abundant *Salvia pratensis* with Gramineae - (as *Erythroneura scutellaris* Herrich-Schäffer, *Zyginidia* sp. prope *pullula*): 1♀ dry.

Typhl. 50 - PIEDMONT - Caluso (TO) - (Border between Vidano's - Plazio's properties) - 14-X-56 - H.P. wild grasses (mostly Gramineae: *Dactylis*, *Agropyron*, etc.) - (as *Erythroneura*): !! 1♂ 7♀♀ in alcohol.

Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - (Along the stream North-East of the village) - 17-VIII-57 - H.P. *Cyperus longus* (near the small lake) - (as *Erythroneura*): ♂♂ ♀♀ not prepared.

Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Parietaria officinalis* - (as *Erythroneura*): ? 1♂ not prepared.

- Typhl. 243 - PIEDMONT - Caluso (TO) - 31-V-58 - H.P. *Zea mays* (small plants) - (as *Eupteryx* gr. *scutellaris*): 1 ♀ not prepared.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - Rhêmes Valley - 13-IX-59 - Dam of the Cogne company (near Tache and Buillet) - m 1,000 ~ - (as *Erythroneura*) - H.P. *Festuca arundinacea*: 1 ♂ 3 ♀ ♀ dry - Villeneuve (AO) - (Xerothermic belt on the left orographic slope of the valley) - H.P. *Andropogon ischaemum*: 12 ♂ ♂ 5 ♀ ♀ dry (1 ♀ aberrant form **drawn**).
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. wild Gramineae - (as *Zygina*): !!! 2 ♂ ♂ dry.
- Typhl. 324 - SARDINIA - Platamona (SS) - 11-VIII-61 - (Area of the marshy zone in front of the Forestry Corps' building) - H.P. *Agrostis (alba v vulgaris)*! stoloniferous and other Gramineae and Cyperaceae in an arid clearing - (as *Zygina*): 7 ♂ ♂ (1 ♂ to Servadei's collection, M.C.S.N. Verona, 20-VII-81), 5 ♀ ♀ dry - phot. 9,157: ♀, length mm 2.7.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley - (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. wild Gramineae (*Dactylis glomerata*, *Festuca* sp.) between nettles and *Satureja* mentioned above (*vulgaris*, editor's note) - (as *Zygina*): 4 ♂ ♂ 6 ♀ ♀ dry.
- Typhl. 405 - SARDINIA - Supramonte - Mount Corraisi, near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - H.P. *Festuca* sp. - (as *Zygina*): 1 ♂ 1 ♀ dry.
- Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena-Bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Panicum crus-galli* - (as *Zygina*): 1 ♂ 1 ♀ dry.
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 - 14-VIII-62 - (as *Zygina*) - H.P. *Festuca elatior*, *Bromus* sp. (Gramineae) (m 1,250-1,300 among *Erica scoparia*, along small streams now dry): 16 ♂ ♂ 7 ♀ ♀ dry - H.P. *Thymus serpyllum v herba-barona* (det. Ariello by comparison!) - Very depigmented leaves (tufts sheltered by big rocks): 1 ♂ 1 ♀ not prepared.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Zea mays*, *Panicum crus-galli* (very depigmented leaves; presence of many neanids and nymphs too) - (as *Zygina*): 9 ♂ ♂ 7 ♀ ♀ dry.
- Typhl. 413 - SARDINIA - Tottubella di Rumanedda (SS) - m 531 - 16-VIII-62 - H.P. *Zea mays* (very depigmented proximal leaves) - (as *Zygina*): 1 ♂ 3 ♀ ♀ dry.
- Typhl. 441 - SARDINIA - Campu Omu - (On the right of the road Cagliari-Muravera, close to the crossroad to Burcei) - Fluminimaggiore (CI) - m 5 - 7-X-62 - (In a stream bed) - H.P. Gramineae (*Bromus*, *Festuca*, etc.) - (as *Zygina*): 1 ♂ 1 ♀ not prepared.
- Typhl. 467 - SARDINIA - Villasimius (CA) - (m 50) - 24-VIII-63 - H.P. *Panicum crus-galli* (among irrigated grapevines) - (as *Zygina*): 1 ♂ 8 ♀ ♀ dry.
- Typhl. 486 - SARDINIA - Fertilia (SS) - 26-V-64 - H.P. Gramineae (under *Tamarix*) - (as *Zygina*): 6 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - 28-V-64 - (South of the hotel Mirafiori) - h 17-19 - (Wind) - H.P. various Gramineae (*Bromus*, *Festuca*, etc.) - (as *Zygina*): 2 ♂ ♂ 2 ♀ ♀ dry.

- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - H.P. Gramineae (among *Santolina*) - m 1,300 - (as *Zygina*): 1♂ dry.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - (Arcu Guddetorgiu) - m 1,150 ~ (fountain) - 31-V-64 - H.P. *Bromus*, *Festuca*, *Avena fatua*, etc. - (as *Zygina*): 15♂♂ 14♀♀ dry.
- Typhl. 491 - SARDINIA - Arcu Tascussì (M. Gennargentu) (NU) - m 1,250 - 31-V-64 - road Desulo-Fonni (NU) - m 1,000 - (Small arid valleys with tall *Ilex aquifolium*) - H.P. Gramineae (*Festuca*, *Bromus*, etc.) - (as *Zygina*): 1♂ 3♀♀ dry.
- Typhl. 527 - JUGOSLAVIJA - Obravac (on the road Sinj-Livno, along the river Cetina) - 4-IX-64 - H.P. *Zea mays*, *Sorghum vulgare* (herbage) - (as *Zygina*): ? ♀♀ not prepared.
- Typhl. 611 - Prof. A. Servadei's collection - Museo Civico di Storia Naturale, Verona - Reclassification of 14 *Zyginidia* received on loan from prof. Ruffo on 20-VII-81, already determined by Dlabola - SARDINIA - Sassari - 5-XII-48: ? 1♀ - Diagnosis of 17 *Z. scutellaris* specimens received on loan, already determined by Ribaut - SARDINIA - Alghero (SS) - 9-VII-48: ? 1♀ - *Z. pullula* is mentioned for Sardinia only by Servadei.
- Typhl. 612 - VENETIA - Verona - Prof. P. Zangheri's collection - Museo Civico di Storia Naturale - Palazzo Gobetti, Corso Cavour 11 (material described in: Pietro Zangheri, Repertorio sistematico e tassografico della flora e fauna vivente e fossile della Romagna, Tome II, Museo Civico di Storia Naturale di Verona, Mem. fuori serie no. 1, 1966, page 797) - Visit of 20-VII-81 - (as *Zygina*) - EMILIA-ROMAGNA - Forlì - 20-IX-46 - (17,570) - Rivola (Forlì, FC) - 10-VII-49 - (28,578) - Vecchiazano (Forlì, FC) - IX-37 - (17,585) - Scardevilla (Forlì, FC) - 20-IX-42 - (17,580): 3♀♀ + 1♀ without abdomen (det. Ribaut) - (Not classifiable because the male is missing: however it should be a *Zyginidia* different from *Z. scutellaris*).
- Typhl. 723 - SWITZERLAND - Poschiavo-San Carlo (GR) (CH) - m 1,100 - 31-VIII-84 - H.P. *Zea mays* - ?*alpina* Cerutti: 4♀♀ (2♀♀ with hypopi of *Allothrombrium*: one normal and one in the initial phase, tiny).
- Typhl. 752 - SARDINIA - Fertilia (SS) - 9-V-85 - H.P. *Avena sterilis* (wasteland near *Eucalyptus* and *Tamarix*): 1♂ 1♀ dry - Reared 13-V-85; juveniles: 4 1st instar, 2 2nd instar, 2 3rd instar, 2 4th instar, 8 5th instar - Adults: 2♂♂ 2♀♀ (separate rearings) - Eggs parasitized by *Anagrus atomus*.
- Typhl. 794 - PIEDMONT - Turin - 25-VII-85 - (Reared by P. Mazzoglio) - H.P. *Zea mays* (grown in glasshouse) - Hybrids in the laboratory - *Z. scutellaris* Sardinia (Typhl. 752) x *Z. pullula* Piedmont - 1) ♂ of *Z. scutellaris* x ♀ of *Z. pullula* - 2) ♂ of *Z. pullula* x ♀ of *Z. scutellaris* (♂ similar to 1) - **Drawings** of aedeagi and upper pygofer appendages of the hybrids.
- Typhl. 845 - SARDINIA - Villasimius (CA) - 30-IV-86 - Along the seaside - H.P. *Agropyron junceum*, *Lolium perenne*, *Hordeum murinum*, *Avena sterilis* (juveniles of *Zyginidia* sp.: 1st instar: 2; 2nd instar: 13; 3rd instar: 4; 4th instar: 2; 5th instar: 2): 4♂♂ dry, 3♀♀ reared.
- Typhl. 847 - SARDINIA - Pula (CA) - 1-V-86 - H.P. *Avena sterilis*: 2♂♂.
- Typhl. 884 - FRANCE - Toulouse - 27-X-86 - Leg. Arzone-Alma - Public gardens-palais

des sports - H.P. *Sorghum vulgare*: 2♂♂ dry (very depigmented leaves), adults blocked by Entomophthoraceae (phot.) (see joint sheet).

Typhl. 912 - PORTUGAL - Oporto - (Park Boega Hotel) - (Preparation by dr Alma) - 11-VI-88 - H.P. *Dactylis glomerata*: 5♂♂ 12♀♀ dry.

Typhl. 913 - PORTUGAL - Batalha - (113 Km North of Lisbon) - 11-VI-88 - H.P. *Zea mays*: 1♀ dry + juveniles.

ZYGINIDIA serpentina (Matsumura, 1908)

Typhl. 635 - SICILY - Noto (SR) - (Contrada Monghisi) - m 450 - 5-VI-79 - Vera D'Urso legit - Wao 24-IX-37 - H.P. ?wild Gramineae (along the river Monghisi) - (as *scutellaris* Herrich-Schäffer, det. D'Urso): 2♂♂ 4♀♀ dry - (According to Vilbaste, 1976) - Confirmed by Vidano 10-XII-61 - Kept by Vidano 1♂ 2♀♀ - Given back to V. D'Urso 1♂ 2♀♀ - Given to V. D'Urso 2♂♂ 2♀♀ of *Z. lineata* Lindberg.

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 23-VII-84: ♂♂ ♀♀ dry - 28-VI-84: 3♂♂ 4♀♀ dry.

Typhl. 795 - SICILY - Milo (CT) - m 740 - 1-VIII-85 - (Wine Farm Barone di Villagrande) - H.P. *Sorghum halepense* (in vineyard) - Tuft with depigmented leaves: 1♂ dry.

Typhl. 798 - SICILY - Siracusa - (River Ciane) - (Papyrus) - 2-VIII-85 - h 15 - H.P. *Cynodon dactylon* (well depigmented leaflets): 2♂♂ 1♀ dry (specimens ruined by small fly larvae) - H.P. *Sorghum vulgare* (with inflorescence, herbage 5 cm tall), *Zea mays* with inflorescences (herbage): 1♂ 1♀ reared on maize on 6-VIII-85 - 1♂ 1♀ not prepared.

Typhl. 804 - SICILY - Dattilo - Municipality of Paceco (TP) - m 56 - 4-VIII-85 - H.P. *Sorghum vulgare* (dwarf, nearly ripe-0.5 ha): 10♂♂ 9♀♀ dry - phot. ♂ mm 2.7; ♀ mm 3.10 - 7-VIII-85: 3♂♂ 3♀♀ reared on maize - Concentration of the leafhoppers on a slope where sorgho had still green and turgid leaves: depigmentations - Everything arid around for kilometres.

Typhl. 843 - Auchenorrhyncha collected with a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 24-VII-85: 2♀♀ - 12-VIII-85: 1♂.

ZYGINIDIA servadeii Vidano, 1982

Typhl. 289 - LIGURIA - Finale Ligure (SV) - 21-IX-59 - H.P. *Agrostis alba*, *Anthoxanthum odoratum*, *Andropogon ischaemum* and other Gramineae - (as *Erythroneura ossiannilssoni*, gr. *E. scutellaris*) - (Det. Vidano, 1982): 4♂♂ (3 dry, 1 in alcohol-prepared for **drawing**). Holotypus and Paratypes; 4♀♀ (3 dry, 1 in alcohol) Allotypus and Paratypes - Length of ♂♂ 3.10-3.30 mm, ♀♀ 3.20-3.40 mm - *E. silvicola* Ossiannilsson (from Tignet, Typhl. 265) is more pigmented particularly on the head - (Cfr. Typhl. 292-314-316-422-427-437-475-477-478-506) - **Drawings** and sketches of the aedeagus.

Typhl. 292 - LIGURIA - Colle di Melogno (SV) - (Slope of Finale) - m 500-600 - 4-VI-II-60 - H.P. *Dactylis glomerata*, *Brachypodium pinnatum*, *Poa pratensis* (vegetation along and under thick bushes of *Castanea*, *Quercus*, *Rubus*, and *Genista*) - (as *Ery-*

throneura, *Zygina ossiannilssoni*): 8♂♂ 10♀♀ dry - Depigmented leaves, presence of 5th instar nymphs - (Det. Vidano, 1982 - Paratypes) - phot. 8,332: ♂ dorsal (length mm 3.2); 8,333: ♂ ventral (length mm 3.2) - Length mm: ♂♂ 3.10-3.30; ♀♀ 3.20-3.40 - Body relatively light; pygofer lobes creamy ventrally in the ♀ and proximally in the ♂.

Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - River Simeto - m 10 - 10-VII-61 - H.P. reed (!*Phragmites australis*) - (as *Zygina ossiannilssoni*): 10♂♂ 2♀♀ dry - (Cfr. Typhl. 289).

Typhl. 422 - LIGURIA - Mount Bignone (IM) - m 1,000 - (North slope, shaded understorey of *Castanea*, *Acer*) - 15-IX-62 - H.P. ?*Vulpia*, *Festuca* and other Gramineae - (as *Zygina ossiannilssoni*): 7♂♂ 7♀♀ dry - (Cfr. Typhl. 289).

Typhl. 423 - LIGURIA - Carpe (SV) - (Serra di Alzabecchi, road Borghetto S. Spirito-Calizzano) - m 500-600 - (Karstic zone!) - 16-IX-62 - (as *Zygina ossiannilssoni*) - H.P. various Gramineae (under small oaks, arid environment), *Festuca spadicea* and ?*Carex*, *Poa tenuifolia* + *Zea mays* of a close small field of about fifty m²: 10♂♂ 3♀♀ dry - (Cfr. Typhl. 289) - phot. Aedeagus lateral - H.P. various Gramineae (under small oaks, arid environment), *Festuca spadicea* and ?*Carex*, *Poa tenuifolia*. *Bromus erectus* (sheltered by a drystone wall, in a cool environment): 5♂♂ 3♀♀ dry - (Distance of the above mentioned specimens from the locality: m 50 ~) - Light clypeus, genital blades of the ♂ light proximally.

Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Agrostis*, *Bromus*, !*Agropyron repens*, !*Dactylis glomerata* (under the above mentioned oaks; *Q. sessiliflora* and *Q. cerris*, editor's note; in the coppice of the Torlonia maquis) - (as *Zygina ossiannilssoni*): 4♂♂ 6♀♀ dry. Phot. (...) aedeagus dorsal and lateral - (Cfr. Typhl. 289-292-314-316-427).

Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826) - (as *Zygina ossiannilssoni*) - H.P. *Arundo donax*: 4♂♂ 12♀♀ dry + nymphs - H.P. various Gramineae (*Bromus*, *Festuca*, etc.) along a dry ditch and under small trees of *Populus*, *Quercus*, *Alnus* etc.: 3♀♀ not prepared.

Typhl. 683 - LIGURIA - Sanremo (IM) - (Farm Mucci) - m 150 - 19-VI-84 - H.P. *Dactylis glomerata*, *Brachypodium pinnatum* (under *Castanea* and *Eucalyptus*): 1♂ 1♀ dry.

Typhl. 684 - LIGURIA - Apricale (IM) - m 300 - 19-VI-84 - H.P. *Brachypodium pinnatum*, *Bromus*, *Festuca* (in an olive grove along the road), *Zea mays* (depigmented): 1♂ 1♀ dry. Phot. (...): ♂ and ♀.

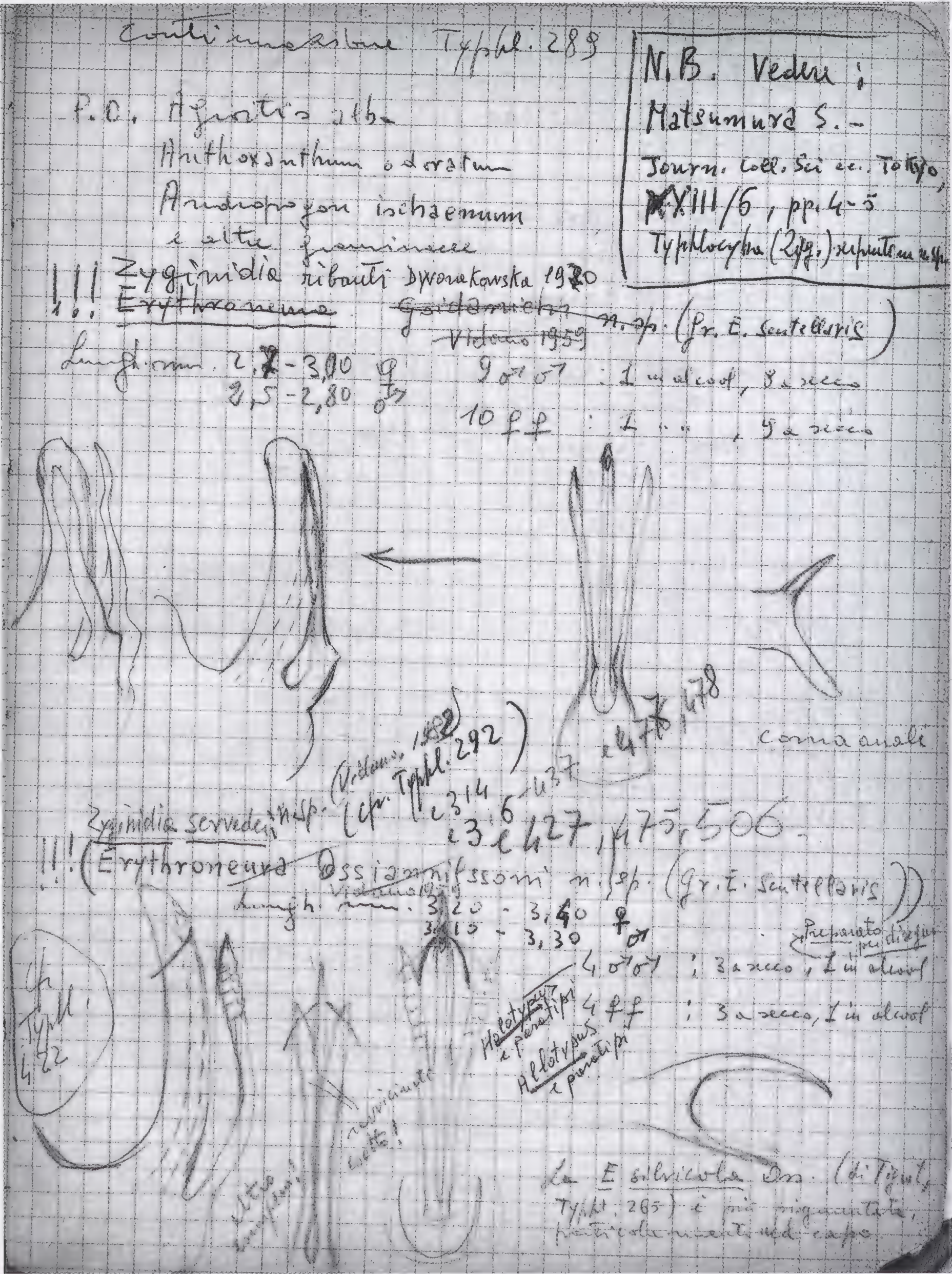


Fig. 18 - A notebook page with the sketches of the genitalia of Zyginidia ribauti Dworakowska and Z. servadeii Vidano

BOXES 46-49

GENUS *ZYGINA* Fieber, 1866*ZYGINA* sp.

Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa* - (as *Erythroneura* sp. gr. *flammigera*): 1 ♀ dry.

ZYGINA angusta Lethierry, 1847

Typhl. 43 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 8-X-56 - H.P. *Carpinus betulus* - (as *Erythroneura*): 2 ♂♂ dry.

Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Quercus* sp. - (as *Erythroneura*): 1 ♂ 2 ♀♀ dry - I note that the ♂, although the rest of its body is intensively pigmented, has the tarsi completely white.

Typhl. 60 - PIEDMONT - Caluso (TO) - (Salvetti's thicket - Regione Aiè) - 20-X-56 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 1 ♀ dry.

Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Strong bushes made of basal suckers grown 3-4 months ago after felling big trees to install a tension line. The canopy is still thick and green, while that of normal bushes is scarce and yellow - (as *Erythroneura*): 1 ♀ dry.

Typhl. 65 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 29-X-56 - H.P. *Carpinus betulus* (as *Erythroneura*): 1 ♀ dry - (with *Typhlocyba solearis* Ribaut and *T. douglasi* Edwards. The determination of the ♂♂ is certain, that of ♀♀ no. The only faint yellow colour of the elytra is not a sufficient guarantee. However on hornbeam (host plant) as I found mostly ♂♂ of *Typhl. douglasi* (3 against 1 of *T. solearis*) (= *frustrator*, editor's note) I attribute also the 6 ♀♀ collected to this species, keeping present that actually the ♀♀ have the elytra very pigmented of yellow.

Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura*): 3 ♂♂ 1 ♀ dry - Red pigments not displayed like in the forma typica but neither like in the var *rubrinervis* - (Cfr. Typhl. 62).

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura*): 9 individuals of which 5 ♂♂ (2 dry to Dlabola, 3 in alcohol), 4 ♀♀ (2 dry to Dlabola, 2 in alcohol).

Typhl. 74 - PIEDMONT - Caselette (TO) - (Oak wood) - 27-II-57 - H.P. *Juniperus communis* - (as *Erythroneura*): 1 ♂ dry.

Typhl. 76 - PIEDMONT - Ternavasso (TO) - (Clearing of the wood beneath the new tension line) - 27-III-57 - Biotope: dry *Quercus* leaves on the ground and on the plant (bushes) - (as *Erythroneura*): 1 ♂ 1 ♀ in alcohol.

Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - H.P. *Juniperus communis* - (as

Erythroneura): 2♂♂ 4♀♀ in alcohol.

- Typhl. 167 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 19-VIII-57 - H.P. *Agri-
monia eupatoria*: several depigmented leaves: presence of some adults of the following
species: *Erythroneura angusta*, *Typhlocyba rosae*, *T. tenerrima* (♂♂ ♀♀ not pre-
pared).
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Prunus
domestica* (as *Erythroneura*): 1♂ not prepared.
- Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-
57 - H.P. *Carpinus betulus* - (as *Erythroneura*): 6♂♂ 4♀♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) -
18-IX-57 - H.P. *Acer campestre* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) -
18-IX-57 - H.P. *Corylus avellana* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P.
grapevine (*Vitis labrusca*) - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately
after the church) - 24-IX-57 - (as *Erythroneura*) - H.P. *Salix alba* (big topped trees):
1♂ not prepared - H.P. *Ulmus campestris* (topped plants on the right and hedge along
the left of the road leading to the pheasant's reserve): 1♂ not prepared.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* (as *Ery-
throneura*): 1♂ 2♀♀ not prepared.
- Typhl. 212 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Small hills in the
middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among
defoliated trees) - (as *Erythroneura*): 1♂ 2♀♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Strada Valpiana 31, Istituto Difesa del
Fanciullo) - 14-X-57 - H.P. *Sophora japonica* - (as *Erythroneura*): 3♂♂ not pre-
pared.
- Typhl. 263 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 10/15-
VIII-58 - H.P. *Carpinus betulus* - (as *Erythroneura*): 1♂.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - [(as
Erythroneura) *Flammigeroidia*]: 10♂♂ 7♀♀ in a plastic tube. Phot. 3,779: ♂.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-
IX-61 - H.P. *Carpinus betulus* - (as *Flammigeroidia*): 1♀ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice
thickets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Prunus spinosa*
- (as *Flammigeroidia*): 1♂ not prepared.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near
building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Flammigeroidia*):
6♂♂ 6♀♀ dry.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone)
- 1-X-61 - H.P. *Ostrya carpinifolia* - (as *Flammigeroidia*): 1♂ 1♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 -
(Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the
arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quer-*

- cus pedunculata* - (as *Flammigeroidia*): 1♂ 5♀ ♀ not prepared.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Rhus cotinus* (far from the cave, in karstic areas) - (as *Flammigeroidia*): 2♂♂ not prepared.
- Typhl. 380 - PIEDMONT - Moncalieri (TO) - (Park of a villa in the high part of the city) - 28-I-62 - H.P. *Buxus sempervirens* - (as *Flammigeroidia*): 1♂ 1♀ not prepared.
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Rubus caesius* (as *Flammigeroidia*): 4♀ ♀ + 5th instar nymphs! not prepared.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana* - (as *Flammigeroidia*): 1♂ 1♀ not prepared.
- Typhl. 417 - LIGURIA - Rezzo (IM) - m 500 ~ - 14-IX-62 - (Arriving from Pieve di Teco, locality populated by *Rhus cotinus* a little before Rezzo) - H.P. *Rhus cotinus* - (as *Flammigeroidia*): ♂♂ ♀♀ not prepared. Strong wind, steep slope, a lot of brambles prevented me from examining properly this plant; it is not improbable that also in this locality *R. cotinus* hosts some interesting species of Typhlocybiidae, like in the zone of Trieste where one meets *Zyginella pulchra*. The basal leaves, less exposed to the wind, are in fact very depigmented.
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Fagus sylvatica* (bushy plants, low, windy day) (as *Flammigeroidia*): 3♂♂ 2♀ ♀ not prepared.
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - (North slope; shaded understory, *Castanea*, *Acer*) - 15-IX-62 - (as *Flammigeroidia*) - H.P. *Carpinus betulus* (low bushes, tender vegetation): ! 3♂♂ 3♀ ♀ not prepared - H.P. *Acer pseudoplatanus* (low bushes): 1♂ 4♀ ♀ not prepared.
- Typhl. 462 - LIGURIA - Passo di Tegli (IM) - (Pylon) - m 1,400 - 15-VIII-63 - H.P. *Prunus spinosa*, *Rosa canina*, etc. (as *Flammigeroidia*): 1♀ dry.
- Typhl. 473 - PIEDMONT - Alpinia - Stresa (VB) - (Cfr. Typhl. 458) - 17-IX-63 - (as *Flammigeroidia*) - H.P. *Cotoneaster horizontalis* (very depigmented leaves in the shaded zone): ♂♂ ♀♀ + juveniles not prepared - H.P. *Sorbus aria*: 1♀ not prepared.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Crataegus monogyna* and *Rosa canina* - (as *Flammigeroidia*): ! ♂♂ ♀♀ not prepared.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Carpinus betulus* (hedge along the road): 1♀ not prepared.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 1♂ 1♀ dry. Phot. (...): ♀.
- Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa*: 1♂ dry.
- Typhl. 717 - PIEDMONT - Belmonte-Cuorgnè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant bushes): 1♂ dry (coming from nearby hedges?).

- Typhl. 718 - PIEDMONT - Locana-S. Giacomo - (TO) - m 1,020 - 15-VIII-84 - H.P. *Corylus avellana*: abundant on the plot borders, meadows, mixed with *Acer pseudoplatanus*, *Fraxinus excelsior*, *Castanea vesca*, *Prunus cerasus*, *Sorbus aria*, *Sorbus aucuparia*, farther *Betula verrucosa* (*Quercus* missing): 1♂ not prepared.
- Typhl. 739 - PIEDMONT - Valcasotto (CN) - 27-IX-84 - m 1,100 - H.P. *Corylus avellana*: 1♀ not prepared.
- Typhl. 740 bis - PIEDMONT - S. Michele Mondovì (CN) - 27-IX-84 - m 600 - H.P. *Corylus avellana* (cultivated): 1♂ not prepared.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1♂.
- Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 3♂♂ not prepared.

ZYGINA discolor Horváth, 1897

- Typhl. 103 - PIEDMONT - Bussoleno-San Giorio (TO) - 31-V-57 - H.P. almond - (as *Erythroneura*): 1♀ dry.
- Typhl. 107 - APULIA - S. Giovanni Rotondo (FG) - (Gargano) - (Near the convent) - m 600 - 5-VI-57 - H.P. *Prunus communis* (almond) - (as *Erythroneura*): 1♀ dry. Phot. 3,990 - (Cfr. Typhl. 103).
- Typhl. 124 - PIEDMONT - Bussoleno-San Giorio (TO) - 5-VII-57 - H.P. *Prunus communis* (almond) - (as *Erythroneura*): 13 adults of which 10♂♂ 3♀♀: in alcohol several ♂♂♀♀ adults reared and others collected - Some ♂♂ and ♀♀ have the scutum more or less white - Presence of 3rd instar nymphs (last). Phot. 4,131; 4,129, 4,130: depigmented leaves - (3 nymphs in alcohol) - The first generation is accomplished in these days; some ♀♀ of the 2nd generation have already begun laying eggs - Eggs (1-2 per leaf in the main veins) - N.B.: in *E. discolor* (♂♀) the red areas of the tegmina are more expanded and the 2 white areas near the commissure of the tegmina are smaller; vice versa in *E. flammigera*.
- Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Thuja orientalis* (as *Erythroneura*): 1♂ dry.
- Typhl. 184 - LATIUM - Montalto di Castro (VT) - 9-IX-57 - H.P. *Quercus pedunculata* and *Q. cerris* (as *Erythroneura*): 1♂ dry, with light tarsi!!!
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura*): 2♂♂ 3♀♀ dry - The almonds have been defoliated for a long time, or better with a very poor canopy, as well as *Prunus spinosa* bushes: 1♂ 2♀♀ to Linnavuori, September 1961.
- Typhl. 274 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Xerothermic oases) - 22-X-58 - H.P. *Quercus sessiliflora* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Villeneuve (AO) - 13-IX-59 - (Xerothermic belt on the left orographic slope of the valley) - H.P. *Prunus communis* (almond) - (as *Erythroneura*): ♂♂♀♀.

- Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - (Slope of Calizzano) - m 650-700 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 1 ♀ not prepared.
- Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Bizzozzero (VA) - 21-VIII-59 - H.P. peach (as *Erythroneura*): ? 1 ♂ 1 ♀ poorly pigmented.
- Typhl. 314 - CALABRIA - Crotone - 8-VII-61 - Ente Riforma farm - (as *Erythroneura*) - H.P. *Prunus persica*: 4 ♀ ♀ dry - H.P. *Prunus cerasus* and *P. domestica*: 2 ♀ ♀ not prepared.
- Typhl. 315 - CALABRIA - Sila Piccola - Lorica (CS) - Near the lake Arvo, Mazzei Giuseppe's house (Bandit Grimoli) - m 1,400 - 8/9-VII-61 - H.P. *Prunus domestica* - (as *Erythroneura*): 1 ♂ not prepared.
- Typhl. 318 - SICILY - Mascalucia (CT) - (road to Etna) - 10-VII-61 - H.P. almond (as *Erythroneura*): 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - (as *Erythroneura*) - H.P. *Rosa ?canina*: 1 ♀ not prepared - H.P. *Quercus pubescens*: 2 ♀ ♀ not prepared.
- Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - H.P. *Prunus spinosa* (as *Erythroneura*): 1 ♂ 1 ♀ dry.
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Rubus fruticosus* (as *Erythroneura*): 1 ♂ not prepared.
- Typhl. 331 - SARDINIA - Arborea (OR) - (Vegetable garden near the canal of the drainage district) - 13-VIII-61 - H.P. *Prunus persica* - (as *Flammigeroidia*): 1 ♂ 1 ♀ dry.
- Typhl. 335 - SARDINIA - Cala Gonone (NU) - (Dorgali) - 15-VIII-61 - H.P. *Rubus fruticosus* (along a drystone wall, near vineyards) - (!!!as *Flammigeroidia discolor* forma *spuria* nova): 1 ♂ dry - phot. (...): ♂, length mm 2.9 - (Cfr. Typhl. 363-404).
- Typhl. 338 - SARDINIA - Fonni (NU) - m 1,000 - 16-VIII-61 - H.P. *Acer monspessulanum* - (as *Flammigeroidia*): 6 ♂ ♂ dry.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Flammigeroidia*): 3 ♀ ♀ dry.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Rhamnus frangula* - (as *Flammigeroidia*): 1 ♂ 1 ♀ dry.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Acer campestre* (as *Flammigeroidia*): 1 ♀ dry (cfr. Typhl. 335, *F. discolor* ♂, and 404).
- Typhl. 371 - SARDINIA - San Gregorio-San Priamo (CA) - 18-X-61 - (as *Flammigeroidia*) - H.P. apricot (still very thick canopy): 1 ♂ dry - H.P. almond (suckers with many leaves): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 380 - PIEDMONT - Moncalieri (TO) - (Park of a villa in the high part of the city) - 28-I-62 - H.P. *Hypericum calycinum* - (as *Flammigeroidia*): 4 ♀ ♀ not prepared.
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - H.P. *Rubus fruticosus* - (as *Flammigeroidia*): 1 ♀ not prepared.
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Prunus spinosa* - (as *Flammigeroidia*): 1 ♀ dry.

- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - (as *Flammigeroidia*) - H.P. *Rubus fruticosus*: 1 ♀ not prepared - Forma *spuria* Vidano: 1 ♀ not prepared - (Cfr. Typhl. 335-363) - H.P. *Alnus glutinosa* (occasional host plant: day of strong wind): 2 ♂ ♂ 1 ♀ dry - Forma *spuria* Vidano: 3 ♂ ♂ 2 ♀ ♀ dry.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro) - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - (as *Flammigeroidia*) - H.P. *Quercus ilex* and *Q. suber* (bushes): 2 ♂ ♂ 2 ♀ ♀ not prepared; coming from almond, peach, apricot (common in different parts of the island) and from *Crataegus* - H.P. *Crataegus monogyna*: 6 ♂ ♂ 5 ♀ ♀ dry.
- Typhl. 442 - SARDINIA - San Gregorio (CA) - 7-X-62 - H.P. *Prunus persica* - (as *Flammigeroidia*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 446 - SICILY - Ventimiglia (PA) - (Leg. dr Sampò) - 10-X-62 - H.P. *Quercus lanuginosa* - (as *Flammigeroidia*): 2 ♀ ♀ not prepared.
- Typhl. 485 - JUGOSLAVIJA - Titograd (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. grapevine (as *Flammigeroidia*). 2b) 1 ♂ 1 ♀ dry (to Papevic ♂ without genital urites). 2 specimens collected together with those of the 2nd one (*Z. rhamni*, editor's note).
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - (as *Flammigeroidia*) - H.P. *Quercus suber*, *Q. pseudo-coccinea* and *Q. ilex* (bushes) - (Wind!): 1 ♂, 1 ♀ forma *spuria* not prepared - H.P. *Rubus ?fruticosus*: 3 ♂ ♂ dry, 2 ♀ ♀ forma *spuria* dry.
- Typhl. 489 - SARDINIA - Mount Corraisi (NU) - m 1,200-1,300 - 30-V-64 - (as *Flammigeroidia*) - H.P. *Sorbus aria* !v *obtusifolia*: 1 ♀ not prepared - H.P. *Crataegus monogyna*: 2 ♂ ♂ 4 ♀ ♀ dry, forma *spuria* 2 ♂ ♂ 6 ♀ ♀ dry - H.P. *Rosa* sp.: 1 ♀ not prepared, 4 ♀ ♀ dry forma *spuria* Vidano.
- Typhl. 507 - EMILIA-ROMAGNA - Gualdo (FC) (hamlet of Meldola) - Bed of the stream Bidente - 15-VIII-64 - H.P. *Salix purpurea* - (as *Flammigeroidia*): 1 ♂ 1 ♀ dry.
- Typhl. 510 - ABRUZZO - Gran Sasso (AQ) - m 1,500-1,600 - (End of the panoramic road, beyond Assergi) - 16-VIII-64 - Low vegetation (pasture of cows and sheep); presence of sparse bushes of *Rosa* (?*canina*) and *Sambucus ebulus* - H.P. *Rosa* ?*montana* or ?*pendulina* (as *Flammigeroidia*): 2 ♂ ♂ 1 ♀ dry (♂ with darker tarsi and with few red spots...?).
- Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Acer monspessulanum*, *Ostrya carpinifolia*, *Quercus pubescens*, *Q. aegylops* - (as *Flammigeroidia*): ?forma *spuria* 1 ♂ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Crataegus monogyna* and *Rosa canina* - (as *Flammigeroidia*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Alghero (SS) - 29-VIII-77: 1 ♀ - 1-

VIII-77: 1 ♀ - 25-VII-77: 1 ♂ - 30-VII-75: 1 ♀ .

Typhl. 590 - TUSCANY - Grosseto - (Marina di Grosseto) - 19-VIII-80 - H.P. *Myrtus communis* - (*Flammigeroidia*): 1 ♂ dry.

Typhl. 604 - PIEDMONT - Foresto (Susa) (TO) - 22-II-81 - H.P. *Vaccinium*, Gramineae: 1 ♀ not prepared (used to see brochosomes).

Typhl. 646 - LIGURIA - Sanremo (IM) - (Stream S. Romolo) - m 200 - Farm Mucci - Isola Superiore - 23-VIII-82 - H.P. *Alnus glutinosa*: 1 ♂ 1 ♀ dry.

Typhl. 700 - PIEDMONT - Almese (TO) - (Susa valley) - 15-VII-84 - H.P. *Prunus avium*: 1 ♂ not prepared.

Typhl. 917 - AOSTA VALLEY - Nus (AO) - m 700 - 30-VI-88 - H.P. almond: 2 5th instar nymphs; 1-VII-88 ? 1 ♂ 1 ♀ .

ZYGINA dorycnii (Ribaut, 1936)

Typhl. 504 - LIGURIA - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - (Cfr. Typhl. 423) - m 600 circa - ("Belvedere") - 6-VIII-64 - H.P: *Dorycnium suffruticosum* (det. Ariello!) - (as *Flammigeroidia* var *spoliata*): 2 ♂ ♂ 6 ♀ ♀ + 2 nymphs. 1 ♂ 5 ♀ ♀ dry, 1 ♂ 1 ♀ in alcohol - Genital appendages ♂ like in *F. flammigera* - phot. 12,926: ♂ dorsal, length mm 2.5; 12,927: ♀ dorsal, length mm 2.7 - Species very similar to *F. luteipennis* Rey sensu Ribaut. The vertex is poorly pointed in the ♀ and rounded in the ♂. Concerning differences in the colour, see colour phot. (slides). Absence (at least in these specimens of a summer generation) of red pigments both in the forebody and in the elytra. Length of the 2nd ♂ mm 2.4. Length of the other 5 ♀ ♀ mm 2.70; 2.75; 2.80; 2.80; 2.80. 2 of the 6 ♀ ♀ were reared from nymphs on 9-VI-II-64 - (Cfr. *Erythroneura stellata* Ribaut 1948 on *Galium canum*, on the island of Cyprus: Lindberg 1948) - **Drawing** of the 7th ♀ urosternum.

Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Dorycnium suffruticosum* (with depigmented leaves, probably by *Flammigeroidia dorycnii* Ribaut).

Typhl. 541 - (Cfr. Typhl. 504) - LIGURIA - Finale Pia, Savona's inland (SV) - 4-VIII-66 - H.P. *Dorycnium suffruticosum* - (as *Flammigeroidia*): 5 ♂ ♂ 7 ♀ ♀ dry var *spoliata*.

ZYGINA flammigera (Fourcroy, 1785)

Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree - (as *Erythroneura*): 1 ♂ (det. December 1960, not preserved).

Typhl. 01 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 11-IX-55 - H.P. apple tree - (as *Erythroneura*): 3 ♂ ♂ 4 ♀ ♀ (some newly emerged) not preserved.

Typhl. 1 - PIEDMONT - Bussoleno (TO) - 13-X-55 - H.P. *Cydonia vulgaris* - (as *Erythroneura*): 1 ♀ not prepared.

Typhl. 6 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Crataegus monogyna* - (as *Erythroneura*): ♂ ♂ ♀ ♀ dry - Adults of both species (also *E. tiliae*, editor's note) but above all of the second one; these species are very abundant on hawthorn of a hedge along the Canal of Caluso at the level of Picco Isidoro's vineyard.

Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* bushes - (as *Ery-*

throneura gr. *flammigera*): 3 ♀ ♀ dry - with the same drawings but more or less intensely pigmented - N.B.: no parasitized specimens.

Typhl. 18 - PIEDMONT - Condove (TO) - 17-X-55 - (Susa Valley) - H.P. *Alnus incana* (along a ditch with water) - (as *Erythroneura*): ? 1 ♂ dry.

Typhl. 23 - PIEDMONT - Meana (TO) - (road of Colle delle Finestre) - m 1,000 - 17-X-55 - H.P. *Acer pseudoplatanus* - (as *Erythroneura*): ? 1 adult dry.

Typhl. 27 - PIEDMONT - Caluso (TO) - (Picco Giovanni's apple grove) - 20-XI-55 - H.P. apple tree [presence of many adults of the following genera (*Typhlocyba* and *Erythroneura*), on the lower apple leaf page. They are many above all on the leaves of basal suckers, I do not find any parasitized by dryinids] - (as *Erythroneura*): ? 1 ♂ 2 ♀ ♀ (with the wings differently decorated with red) in alcohol.

Typhl. 43 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 8-X-56 - H.P. *Carpinus betulus* - (as *Erythroneura*): 1 ♂ 1 ♀ dry.

Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia's and Bianco's properties) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 3 ♂ ♂ (1 dry, 2 in alcohol).

Typhl. 46 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 6-X-56 - H.P. *Vitis vinifera* - (as *Erythroneura*): 1 ♂ dry.

Typhl. 49 - PIEDMONT - Caluso (TO) - (Barbisin Monti's apple grove) - 14-X-56 - H.P. *Malus communis* - (as *Erythroneura*): 1 ♂ 1 ♀ dry.

Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Prunus persica* - (as *Erythroneura*): 1 ♂ 3 ♀ ♀ dry.

Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Quercus* sp. (with Gramineae nearby) - (as *Erythroneura*): 1 ♂ 2 ♀ ♀ dry.

Typhl. 60 - PIEDMONT - Caluso (TO) - (Salvetti's thicket - Regione Aiè) - 20-X-56 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 1 ♂ dry.

Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2 ♂ ♂ 1 ♀ dry - (Cfr. Typhl. 80).

Typhl. 64 - (Cfr. Typhl. 47) - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 2 ♂ ♂ 2 ♀ ♀ dry.

Typhl. 66 - (Cfr. Typhl. 62) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura*): 1 ♂ dry.

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura*): 7 individuals, of which 5 ♂ ♂ (2 dry, 3 in alcohol), 2 ♀ ♀ (1 dry, 1 in alcohol).

Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - (as *Erythroneura*) - H.P. *Malus communis*: 4 ♂ ♂ 1 ♀ dry (2 of the ♂ ♂ have black genital blades) - H.P. privet hedge (Picco's hedge): 1 ♀ dry.

Typhl. 71 - (Cfr. Typhl. 64) - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto and Maresciallo Garino's properties) - 10-XI-56 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 1 ♀ dry.

Typhl. 72 - PIEDMONT - Caluso (TO) - (Monti Barbisin's apple grove) - 18-XI-56 - H.P. *Malus communis* - as ?*Erythroneura*): 19 individuals of which 6 ♂ ♂ (1 dry phot.

3,627, 1 dry, 4 in alcohol), 13 ♀ ♀ (1 dry phot. 3,628, 1 dry, 11 in alcohol) - Heterogeneous population: 6 ♂ ♂ (1 of which phot.) all the same (see description of phot. 3,627); 2 ♀ ♀ forma typica; 8 ♀ ♀ with a brown stripe on head, pronotum, notum and scutellum. The red area of the clavus is not perfectly straight near the clavo-chorial suture (1 was phot.). 2 ♀ ♀ without the brown stripe on head and pronotum; 1 ♀ in which also scutum and scutellum are not brown.

Typhl. 73 - PIEDMONT - Caluso (TO) - 24-XI-56 - (Monti's apple grove) - H.P. apple tree - (as *Erythroneura*): ? 3 ♂ ♂ dry (the same of those of Typhl. 72, see).

Typhl. 82 - PIEDMONT - Caluso (TO) - (Picco Giordano's orchard) - 14-IV-57 - H.P. apple tree (horizontal cordons) - (as *Erythroneura*): ♂ ♂ ♀ ♀ (it is the most abundant leafhopper in the adult stage on apple trees) (at least in these days).

Typhl. 83 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 21-IV-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1 ♀ not prepared.

Typhl. 84 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 21-IV-57 - H.P. apple tree - (as *Erythroneura*): 14 individuals of which 5 ♂ ♂ 9 ♀ ♀ (1 ♂ phot. 3,818, 1 ♀ phot. 3,819 dry), 4 ♂ ♂ 8 ♀ ♀ reared on apple tree. Presently it is the most abundant species in the adult stage on the apple trees of this zone.

Typhl. 85 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field and hedge of Tululena's field; hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 1 ♀ - The "present" host plant is bramble, while in autumn it was grapevine. The different adults are reared on bramble, but it is difficult that the ♀ ♀ will lay eggs, because their host plant should be *Salix* (Ribaut). Now I find very few adults of other Typhlocybyidae on bramble (besides *Erythroneura simplex*, editor's note).

Typhl. 97 - PIEDMONT - (Cfr. Typhl. 103) - Bussoleno-San Giorio (TO) - 23-V-57 - H.P. *Ulmus campestris* - (as *Erythroneura*): 1 ♀ dry (certainly of the autumn generation, that overwintered).

Typhl. 103 - PIEDMONT - Bussoleno-San Giorio (TO) - 31-V-57 - H.P. almond - (as *Erythroneura*): 1 ♂ 1 ♀ dry.

Typhl. 112 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 16-VI-57 - H.P. *Prunus persica* - (as *Erythroneura*): 5 ♀ ♀ dry.

Typhl. 118 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 22-VI-57 - H.P. *Malus communis* - (as *Erythroneura*): 1 ♂ 1 ♀ dry (the ♀ seems *E. discolor*, but its scutum is brown).

Typhl. 124 - PIEDMONT - San Giorio-Bussoleno (TO) - 5-VII-57 - H.P. *Prunus communis* (almond) - (as *Erythroneura*): 8 ♂ ♂ (2 dry, 6 in alcohol), 5 ♀ ♀ (3 dry, 2 in alcohol).

Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, along the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2 ♀ ♀ dry.

Typhl. 143 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's alder grove) - 18-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1 ♀ not prepared.

Typhl. 150 - PIEDMONT - Caluso (TO) - (Vidano's home) - 28-VII-57 - H.P. *Prunus persica* - (as *Erythroneura*): 1 ♂ dry, 13 ♀ ♀ (4 dry). Phot. 4,243: tegmen and left wing of a ♀.

Typhl. 160 - PIEDMONT - Caluso (TO) - (Tululena's field - Hedge of the Canal) - 10-

- VIII-57 - H.P. *Sambucus nigra* - (as *Erythroneura*): 1♂ 1♀ dry.
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - (as *Erythroneura*) - H.P. *Vitis vinifera*: 2♂♂ 4♀♀ dry - H.P. *Prunus domestica*: 3♂♂ 2♀♀ not prepared - H.P. *Salix alba*: 1♀ not prepared.
- Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Carpinus betulus* - (as *Erythroneura*): 3♂♂ dry, 7♀♀ (3 dry).
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - (as *Erythroneura*) - H.P. *Alnus glutinosa*: 1♂ 1♀ not prepared - H.P. *Corylus avellana* (wild): 2♂♂ 2♀♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Erythroneura*): 1♂ 1♀ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *Erythroneura*) - H.P. *Corylus avellana*: 1♂ 1♀ not prepared - H.P. *Carpinus betulus*: 2♀♀ not prepared.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 1♂ 1♀ not prepared.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. grapevine (*Vitis labrusca*) - (as *Erythroneura*): 2♂♂ 1♀ not prepared.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* (topped plants on the right and hedge along the left of the road leading to the pheasant's reserve) - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Quercus pedunculata* (small bushes) - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 201 - PIEDMONT - Caluso (TO) - (Hedge of Salvetti Pietro's field in the region Aiè, along the dry ditch) - 28-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♀ not prepared.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Erythroneura*): 3♂♂ 2♀♀ not prepared.
- Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch) - (Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ 1♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - (as *Erythroneura*) - H.P. *Alnus incana*: 1♂ not prepared - H.P. *Salix purpurea*: 1♀ not prepared.
- Typhl. 212 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura*): 1♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo, strada Valpiana 31) - 14-X-57 - H.P. *Sophora japonica* - (as *Erythroneura*): 4♂♂ 2♀♀ (3♂♂ 1♀ dry).
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal - Tululena's field) - 26-X-57 - H.P. grapevine (Vidano) - (as *Erythroneura*): 2♂♂ 1♀ not prepared.

- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - H.P. *Laurus nobilis* - (as *Erythroneura*): 1 ♀ not prepared.
- Typhl. 240 - PIEDMONT - Pra Martino - m 1,000 - Villar Perosa (TO) - 21-V-58 - H.P. *Betula alba* (plantlets) - (as *Erythroneura*) - N.B.: the vegetation is much behind compared with that of the plains: 1 ♀ not prepared (with very red pigments).
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *Erythroneura*): 3 ♀ ♀ not prepared 1 of which just emerged.
- Typhl. 261 - LOMBARDY - Goito (MN) - (Sacca's Anonymous estate agency and a manager - Farmer Favulli Cesare - Farm directed by Mr Boffi) - 6-VIII-58 - H.P. almond and peach (depigmented leaves) - (as *Erythroneura*): 5 ♂ ♂ 12 ♀ ♀ in a plastic tube.
- Typhl. 263 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 10/15-VIII-58 - H.P. *Carpinus betulus* - (as *Erythroneura*): 7 ♂ ♂ 1 ♀ in alcohol.
- Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 2 ♂ ♂ 2 ♀ ♀ not prepared.
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - (as *Erythroneura*) - H.P. *Salix alba*: 1 ♂ 1 ♀ - H.P. *Populus alba*: 1 ♂ not prepared - H.P. *Rubus fruticosus*: 1 ♂ 1 ♀ not prepared - H.P. *Quercus sessiliflora*: 1 ♂ not prepared.
- Typhl. 293 - TRENTINO-ALTO ADIGE - Material of the Osservatorio per le Malattie delle Piante - Bolzano - Re. Letter reference no. 490 pos. 4-5 of 18-X-60 - Dr Gaetano Bua - Appiano (Bolzano) m 500 ~ - October 1960 - (as *Erythroneura*, *Flammigeroidia*) - H.P. *Malus communis*: 1 ♂ 1 ♀ not prepared.
- Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Caronno Varesino, Campolongo and Tasso (VA) - 5-X-59 - (as *Erythroneura*) - H.P. pear: 1 ♀ - H.P. apple tree: 1 ♂ 2 ♀ ♀.
- Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - H.P. understorey of small oaks, among dry leaves and *Calluna vulgaris* - (as *Erythroneura*): 1 ♂ not prepared.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* [(as *Erythroneura*) *Flammigeroidia*]: 5 ♂ ♂ 3 of which with white tarsi referable to ?*Erythroneura* (*Flammigeroidia*) ?*pruni* Edwards (but with a coloured forebody); 7 ♀ ♀ in a plastic tube.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus* - (as *Flammigeroidia*): 2 ♂ ♂ 1 ♀ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - (as *Flammigeroidia*) - H.P. *Prunus spinosa*: 1 ♂ not prepared - H.P. *Quercus sessiliflora*: 1 ♀ not prepared.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Flammigeroidia*): 1 ♂ dry.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Ostrya carpinifolia* - (as *Flammigeroidia*): 2 ♂ ♂ 1 ♀ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the

- arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata* - (as *Flammigeroidia*): 3♂♂ 2♀♀ not prepared.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora* - (as *Flammigeroidia*): 1♀ not prepared.
- Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Spiraea ?japonica* (with depigmented leaves) - (as *Flammigeroidia*): 1♂ 1♀ dry.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Calluna vulgaris* - (as *Flammigeroidia*): 2♂♂ 3♀♀ not prepared (coming from nearby fruit trees).
- Typhl. 422 - LIGURIA - Mount Bignone (IM) - (North slope; shaded understorey, *Castanea*, *Acer*) - 15-IX-62 - H.P. *Acer pseudoplatanus* (low bushes) (beechwood) - (as *Flammigeroidia*): 1♂ 1♀ not prepared.
- Typhl. 468 - FRANCE - Urgosse (Gers) - 30-VIII-63 - (Domaine Garvage, Colavino Lorenzo) - H.P. *Salix viminalis* (near pond and vineyard), *S. gr. caprea* (near pond and houses), *S. alba* (near wood), grapevine (near *S. viminalis*) - (as *Flammigeroidia*): 2♀♀ not prepared.
- Typhl. 471 - FRANCE - Apt - (Vaucluse) - 31-VIII-63 - H.P. *Salix alba* (near pond) - (as *Flammigeroidia*): 1♂ 2♀♀ not prepared.
- Typhl. 473 - PIEDMONT - Alpinia - Stresa (VB) - (Cfr. Typhl. 458) - 17-IX-63 - (as *Flammigeroidia*) - H.P. *Spiraea ulmifolia*: ♂♂ ♀♀ - H.P. *Sorbus aria*: 2♀♀ not prepared.
- Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 - H.P. *Carpinus betulus* (bushes) - (as *Flammigeroidia*): 2♀♀ not prepared.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Malus pumila* - (as *Flammigeroidia*): 1♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Crataegus monogyna* and *Rosa canina* - (as *Flammigeroidia*): ! ♂♂ ♀♀ not prepared.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,300 - (Locality near Njeguši. On the road Kotor-Cetinje) - 7-IX-64 - H.P. *Carpinus betulus* (bush understorey) - (as *Flammigeroidia*): 1♂ 1♀ dry.
- Typhl. 529 - JUGOSLAVIJA - Montenegro - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Malus pumila* - (as *Flammigeroidia*): 1♂ 1♀ dry.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Carpinus betulus* (hedge along the road): 1♂ not prepared.
- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Sorbus aucuparia*: 1♂ 1♀ dry.
- Typhl. 632 - FINLAND - Helsinki - 13-IX-81 - H.P. *Prunus cerasus* (not far from *Tilia cordata*): 1♂ 1♀ not prepared.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 1♂ dry - H.P. *Malus communis*: 2♂♂ not prepared - H.P. *Betula pendula*! (near *Rubus*): 1♀ dry.

- Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa*: 3♂♂ 1♀ dry (1♂ dryinidized).
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Prunus pissardi* (house of Metropolitan Police): 2♂♂ 2♀♀ dry - H.P. *Prunus cerasus* (procumbent-ornamental): 2♂♂ 2♀♀ not prepared - H.P. *Crataegus* (?*monogyna*): 1♀ not prepared - H.P. *Fagus sylvatica* v *asplenifolia* (ornamental, near the railing of the playing ground): 3♀♀ not prepared - H.P. *Malus* (?*communis*), railing towards the exhibition hall: 5♀♀ not prepared.
- Typhl. 694 - PIEDMONT - Turin - (Istituto Massimo d'Azeglio) - 6-VII-84 - H.P. *Prunus avium* (in Corso Massimo d'Azeglio) - (as *Flammigeroidia*): 5th instar nymphs and adults (scarce, not prepared).
- Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Betula pendula* - (as *Flammigeroidia*): 1♂ 1♀ dry.
- Typhl. 700 - PIEDMONT - Almese (TO) - (Susa valley) - 15-VII-84 - (as *Flammigeroidia*) - H.P. *Prunus avium*: 10♂♂ 6♀♀ not prepared - H.P. *Prunus domestica*: ♂♂♀♀ not prepared.
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 1♂ not prepared.
- Typhl. 731 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 20-IX-84 - H.P. *Alnus cordata* - (tree of about 10 years of age near the greenhouses): 1♀ dry.
- Typhl. 735 - PIEDMONT - Colla di Valcasotto (CN) - 27-IX-84 - H.P. *Corylus avellana* (near chestnuts, beeches, willows, maples, upstream) - 2° bush (along the road towards the valley): 1♀ not prepared.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Roasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Mount Manfrè (CT) - Etna (SS 22) - 29-VIII-78 (understorey of a chestnut wood): ? 2♂♂.
- Typhl. 876 - LOMBARDY - Villa Olmo (CO) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia*, plants of the park (remarkable leaf depigmentation; presence of *Carpinus betulus*): 1♂ (phot.), 1♀ dry - ♂ length mm 3.10; ♀ mm 3.30.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1♀ not prepared.
- Typhl. 882 - PIEDMONT - Crissolo (CN) - 19-X-86 - m 1,000 ~ - Along the road between Calcinere and Crissolo - H.P. *Betula pendula* (small plants and bushes with still green leaves): 1♂ not prepared - H.P. *Corylus avellana*: 1♀ not prepared.

ZYGINA hyperici (Herrich-Schäffer, 1836)

- Typhl. 63 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 23-X-56 - H.P. ?*Hypericum* (check) near *Calluna vulgaris* - (as *Erythroneura*): 1♀ dry - (In the rearing it fed sucking *Carex cespitosa* leaves) - (Cfr. Typhl. 57).
- Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. *Hypericum perforatum* - (as *Erythroneura*): presence of some mature nymphs on the lower page of well depigmented leaves.

- Typhl. 251 - PIEDMONT - Carignano-Villastellone-Santena (TO) - (Railway escarpment) - 30-VI-58 - H.P. *Hypericum perforatum* - (as *Erythroneura*): presence of many adults and mature nymphs - I collected: 5♂♂ (2 dry, 3 in alcohol), 10♀♀ (5 dry, 5 in alcohol) - phot. 4,957-4,958: 1♂1♀ together; 4,959: 1♀; 4,960: 1♂.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Hypericum perforatum*: 2♂♂ dry.
- Typhl. 336 - SARDINIA - Gairo-Ussassai (OG) - (Circum-Gennargentu) - On the right of the road between Gairo and Ussassai, close to a small bridge and near a small fountain - 16-VIII-61 - H.P. *Hypericum perforatum*: 6♂♂5♀♀ dry (to Servadei: 2♂♂1♀, April 1971).
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Hypericum perforatum* (narrow and long leaves: det. prof. Peyronel): 2♂♂4♀♀ not prepared.
- Typhl. 356 - FRIULI-VENEZIA GIULIA - Gorizia - (5 Km outside the town, on the left of the road Gorizia-Gradisca, arid heading) - 2-X-61 - H.P. *Hypericum perforatum*: 2♂♂2♀♀ not prepared.
- Typhl. 404 - SARDINIA - Passo di Arcu Correboi (NU) - (Near the mine) - 10-VIII-62 - H.P. *Alnus glutinosa* (occasional host plant; day of strong wind): 5♂♂4♀♀ dry (coming from nearby *Hypericum*).
- Typhl. 441 - SARDINIA - Campu Omu - (On the right of the road Cagliari-Muravera, close to the crossroad to Burcei) - Fluminimaggiore (CI) - m 5 - 7-X-62 - (In a stream bed) - H.P. *Hypericum* (big leaves): ! 1♂3♀♀ not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Hypericum*: ♂♂♀♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Hypericum perforatum*: ♂♂♀♀ not prepared.
- Typhl. 490 - SARDINIA - Gennargentu mountains (NU) - Arcu Guddetorgiu (towards Aritzo) - m 1,200 - (Fountain) - 31-V-64 - H.P. *Hypericum androsaemum*: ♂♂♀♀ not prepared.
- Typhl. 492 - SARDINIA - Fonni (NU) - (Bridge R. Ilodei, road Fonni-Mamoiada) - m 800 - 31-V-64 - H.P. *Hypericum androsaemum*: 1♂4♀♀ dry.
- Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vagani) - m 1,100 (near the restaurant of the road (Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina, Dolinas etc. - H.P. *Hypericum perforatum*: ♂♂♀♀ not prepared.
- Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - (*Quercus ?pubescens*) - H.P. *Hypericum perforatum*: 1♀ dry.
- Typhl. 749 - SICILY - Typhlocybines collected by D'Urso, Ippolito, Lombardo - [Locality: Piedmont, Rovasenda (VC), September 1977; Sicily, Mount Etna (CT), 1978; Sicily, surroundings of Noto (CT), 1979; Maritime Alps, 1981] - SICILY - Cava

Carosello - Noto (CT) - m 400 - 2-VII-79 (*Hypericum perforatum*): 1♂.

Typhl. 910 - GREECE - Thessaloniki - Mihaniona (Fishermen village) - 10-X-87 - H.P. *Cynodon dactylon* (under *Malus* in a cotton field): 2♂♂ dry.

ZYGINA lunaris (Mulsant & Rey, 1855)

Typhl. 468 - FRANCE - Urgosse (Gers) - (Domaine Garvage and Colavino Lorenzo) - 30-VIII-63 - H.P. *Salix viminalis* (near pond and vineyard), *Salix* gr. *caprea* (near pond and houses), *S. alba* (near wood), grapevine (near *Salix viminalis*): !! 2♂♂ 5♀♀ dry - phot. 11,850: ♀ mm 2.7; 11,851: ♀ mm 2.7.

Typhl. 471 - FRANCE - Apt - (Vaucluse) - 31-VIII-63 - H.P. *Salix alba* (near pond): 6♂♂ 6♀♀ dry - phot. 11,848: ♀; 11,849: ♂ - H.P. *Populus nigra*: 2♂♂ 2♀♀ not prepared.

Typhl. 884 - FRANCE - Toulouse - 27-X-86 - (Leg. Arzone-Alma) - Public gardens-palais des sports - H.P. *Alnus cordata*: 2♀♀ dry - H.P. *Acer palmatum*: 6♂♂ 5♀♀ dry.

Typhl. 911 - PORTUGAL - Amarante (Oporto) - 10-VI-88 - (Along the river) - Preparation by dr Alma - H.P. *Alnus glutinosa*: 1♂ 1♀ dry.

ZYGINA nivea (Mulsant & Rey, 1855)

Typhl. 321 - SARDINIA - Osilo (SS) - 10-VIII-61 - H.P. *Populus alba*: !!! 5♂♂ 45♀♀ dry + 2♂♂ and some ♀♀ in alcohol, of which: forma typica: 3♂♂ 1♀; var *punctulum*: 2♂♂ 37♀♀; var *dorsuaria*: 7♀♀ - Plants very infested not only by adults but also by neanids and nymphs (in alcohol with adults and exuviae). Egg-layings in leaf stalks and veins of 1st and 2nd degree. Eggs parasitized by *Anagrus*. Leaves with silvery white spots relatively poorly obvious; but the general decolouring is remarkable.

Typhl. 324 - SARDINIA - Platamona (SS) - 11-VIII-61 - (Area of the marshy zone in front of the Forestry Corps' building) - H.P. *Populus alba*: 6♂♂ 14♀♀ dry of which: forma typica 3♂♂ 1♀; forma *unipunctata* nova 2♀♀ (with the only red spot on the vertex) - phot. 9,167: ♀ length mm 3.9! - !!forma *bipunctata* nova (with the only 2 spots of the scutum, actually very small) 1♂ dry; forma *punctulum* Ribaut 2♂♂ 6♀♀ dry - phot. 9,168: ♀, length mm 3.7!; forma *cruoris* Rey 1♀ dry; forma *dorsuaria* Ribaut 4♀♀ dry - phot. 9,169: ♀ length mm 3.8.

Typhl. 328 - SARDINIA - Quartu S. Elena (CA) - (Along the road to Muravera) - 12-VIII-61 - H.P. *Populus alba*: 5♂♂ 20♀♀ (mostly forma *punctulum*) not prepared.

Typhl. 329 - SARDINIA - Oristano - (Wasteland, 6 Km from the city, on the right of the road to Cagliari) - 13-VIII-61 - H.P. *Populus alba*: ♂♂ ♀♀ mostly forma *punctulum* not prepared.

Typhl. 332 - SARDINIA - Arborea (OR) - (Thicket near the vegetable gardens close to the canal of the drainage district) - 13-VIII-61 - H.P. *Populus alba*: 7♂♂ 13♀♀ dry (mostly forma *punctulum*).

Typhl. 377 - SARDINIA - Cagliari - Iglesias - (Halfway between Iglesias and Domusnovas) - 19-X-61 - H.P. *Populus alba*: 7♂♂ 8♀♀ dry (forma *punctulum*) - H.P. *Rubus fruticosus*: 11♂♂ 4♀♀ dry.

- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Rubus fruticosus*: 2 ♀ ♀ not prepared var *punctulum* - H.P. *Populus alba* (with many already well developed leaves): 6 ♂ ♂ 18 ♀ ♀ - Presence of plenty adults coming from winter quarters - 1 ♀ parasitized by pipunculid - 6 ♂ ♂ 15 ♀ ♀ dry.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Salix purpurea*, *S. caprea*: 2 ♀ ♀ not prepared.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Quercus ilex* and *Q. suber* (bushes): 11 ♂ ♂ 6 ♀ ♀ dry forma *punctulum*. Certainly coming from *Populus alba* that in the Elba Island is present in different localities, also in the surroundings of Portoferraio - (Cfr. Typhl. 434).
- Typhl. 435 - TUSCANY - Elba Island - Portoferraio (LI) - (Locality just outside the village, on the left of the road to Porto Azzurro) - 21-IX-62 - H.P. *Populus alba*: 2 ♂ ♂ 4 ♀ ♀ dry forma *punctulum*.
- Typhl. 522 - JUGOSLAVIJA - Split - (Experimental field of the Institut Zajadranske Kulture) - 2-IX-64 - H.P. *Populus alba*: ♂ ♂ ♀ ♀ var *punctulum* not prepared.
- Typhl. 884 - FRANCE - Toulouse - 27-X-86 - (Leg. Arzone-Alma) - Public gardens-palais des sports - H.P. *Alnus cordata*: 3 ♂ ♂ 3 ♀ ♀ dry var *punctulum* - H.P. *Populus alba*: 4 ♂ ♂ 14 ♀ ♀ dry + 4th and 5th instar nymphs - forma typica + var *nycthemera* Ribaut + var *punctulum* Mulsant & Rey + 10 nymphs reared on 10-XI-86 ? 4 ♂ ♂ 6 ♀ ♀ not prepared - H.P. *Corylus* sp. (ornamental): 1 ♀ var *punctulum* Mulsant & Rey - H.P. *Acer palmatum*: 1 ♂ 5 ♀ ♀ dry; var *cruoris* Rey: 1 ♀ - H.P. *Quercus ilex*: 6 ♂ ♂ 6 ♀ ♀ not prepared (especially var *punctulum* Mulsant & Rey) - H.P. *Koeleria paniculata* (fam. Sapindaceae: bladder tree): 1 ♂ phot. dry var *cruoris* Rey.

ZYGINA ordinaria (Ribaut, 1936)

- Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - H.P. *Quercus* sp. (near Gramineae) - (as *Erythroneura*): 1 ♂ dry - Tarsi not completely black.
- Typhl. 66 - (Cfr. Typhl. 62) - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura*): 2 ♂ ♂ 1 ♀ dry.
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* (as *Erythroneura*): 5 ♂ ♂ (2 dry, 3 in alcohol), 3 ♀ ♀ (1 dry, 2 in alcohol) - It is worthwhile to describe the morphologic differences between the aedeagus of *E. tiliae* and that of *E. ordinaria*.
- Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - (as *Erythroneura*) - H.P. *Juniperus communis*: 1 ♂ 5 ♀ ♀ in alcohol - H.P. *Pinus sylvestris*: 1 ♂ 3 ♀ ♀ in alcohol (♂ and ? ♀ ♀ with a brown prosternum).
- Typhl. 86 - PIEDMONT - Caluso (TO) - (Young *Salix alba*, Salvetti-Podio's field, Regione Aiè) - 21-IV-57 - H.P. *Salix alba* and *S. viminalis* - (as *Erythroneura*): ♀ ♀ (5 dry var *pallida* nova) - N.B.: all specimens are without red pigments (this is not said by Ribaut) and they show obviously the infumate areas, particularly those of the elytra. Like

those of Typhl. 77 they have also the mesothoracic sternite brown. But for the descriptions it is indispensable to use the ♂♂, which, having only the last tarsal article and the end of the penultimate one black, differ neatly from those of *E. tiliae*, in which the tarsi are completely black. Even if it is *E. tiliae*, the var n. would not change, as the red pigments are missing. I note that on the nearby alders (Cfr. Typhl. 83) there are exclusively typical *E. tiliae* and *E. inconstans*, in which the mesosternum is not black!

- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Salix alba* - (as *Erythroneura*): 11 ♂♂ (3 dry, 8 in alcohol), 13 ♀♀ (6 dry, 7 in alcohol), 2 nymphs (with antennae longer than the body) in alcohol - All specimens have the prosternum brown - There is a transverse red stripe on the face of only one ♀ (dry) - Post-ocular spots red only in few individuals.
- Typhl. 187 - PIEDMONT - Caluso (TO) - (Tululena's orchard) - 15-IX-57 - H.P. *Salix alba* - (as *Erythroneura*): ♂♂ ♀♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba* - (as *Erythroneura*): 9 ♂♂ (6 dry, 3 in a plastic tube), 8 ♀♀ (2 dry, 6 in a plastic tube).
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *Erythroneura*) - H.P. *Corylus avellana*: 1 ♂ 1 ♀ not prepared - H.P. *Carpinus betulus*: 1 ♂ 1 ♀ not prepared.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Salix alba* (big topped trees) - (as *Erythroneura*): 2 ♂♂ 2 ♀♀ not prepared.
- Typhl. 197 - PIEDMONT - Stupinigi (TO) - (Stream Sangone) - 24-IX-57 - H.P. *Salix alba*, *Salix purpurea* - (as *Erythroneura*): 3 ♂♂ 3 ♀♀ dry.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Salix alba* - (as *Erythroneura*): ! 2 ♂♂ dry (with a brown prosternum).
- Typhl. 209 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 6-X-57 - H.P. *Ulmus campestris* - (as *Erythroneura*): 2 ♂♂ 4 ♀♀ dry - 1 ♂ 4 ♀♀ have characters to be examined carefully (♂ with reddish brown tarsi and light genital valves).
- Typhl. 211 - PIEDMONT - Villar Focchiardo-San Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Salix purpurea* - (as *Erythroneura*): ! 5 ♂♂ 2 ♀♀ not prepared (no *E. inconstans* present instead on the nearby *Alnus*).
- Typhl. 214 - PIEDMONT - Ulzio (TO) - (Dora Riparia Valley) - (Downstream, one Km outside the village, along the curve and the national route) - 8-X-57 - H.P. *Salix purpurea* - (as *Erythroneura*): 1 ♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Strada Valpiana 31, Istituto Difesa del Fanciullo) - 14-X-57 - H.P. *Sophora japonica* - (as *Erythroneura*): 1 ♂ dry (with infumate thorax and abdomen).
- Typhl. 230 - PIEDMONT - Caluso (TO) - (Tululena's field) - 2-II-58 - H.P. *Rubus fruticosus* [the individuals of the different species (*E. rhamni*, *E. tiliae*, *E. tithide*, *Empoasca pteridis*, editor's note) were preserved until 26-II-58 in a glass tube containing green bramble leaves. At the moment of the examination they were still all alive] - (as *Erythroneura*): 1 ♀ not prepared.

- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - H.P. *Laurus nobilis* - (as *Erythroneura*): 1♂ dry.
- Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Alnus glutinosa* - (as *Erythroneura*) - *tiliae* or ?*ordinaria*: 1♂ 1♀ not prepared.
- Typhl. 271 - PIEDMONT - Stupinigi (TO) - (Bridge of the stream Sangone) - 8-X-58 - H.P. *Salix purpurea* - (as *Erythroneura*): 3♀ ♀ not prepared - (Cfr. Typhl. 197).
- Typhl. 285 - PIEDMONT - Gran Paradiso National Park - Rosone (TO) - (Orco Valley) - 9-IX-59 - H.P. *Salix purpurea* - (as *Erythroneura*): 3♀ ♀ not prepared.
- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - (Rhêmes Valley) - 13-IX-59 - Proussaz (AO) - m 1,397 - H.P. *Salix purpurea* - (as *Erythroneura*): ♂♂ ♀♀ not prepared.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - (as *Erythroneura*): 10♂♂ 9♀ ♀ in a plastic tube (including specimens of the var *variegata* Ribaut and *pandellei* Ribaut) - All specimens have the thoracic sternites black - phot. 8.781: ♂ ventral cfr. with ♂ of *E. tiliae*.
- Typhl. 458 - PIEDMONT - Ghislarengo (VC) - (Bridge on the Sesia) - 3-VI-63 - H.P. *Salix purpurea* and *S. alba* - (as *Flammigeroidia*): ? 1♀ dry.
- Typhl. 529 - JUGOSLAVIJA - (Montenegro - Danilovgrad, Titograd) - 7-IX-64 - (Near the river Zeta) - H.P. *Salix alba* - (as *Flammigeroidia*): 3♂♂ 1♀ dry (+ nymphs).
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Salix alba* and *Salix* spp. (along the Tanaro): 4♂♂ 11♀ ♀ dry.

ZYGINA pruni Edwards, 1924

- Typhl. 118 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 22-VI-57 - H.P. *Malus communis* - (as *Erythroneura*): 1♂ dry (tarsi a little brown).
- Typhl. 124 - PIEDMONT - S. Giorio-Bussoleno (TO) - 5-VII-57 - H.P. *Vitis vinifera* - (as *Erythroneura*): 1♂ dry.
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Vitis vinifera* - (as *Erythroneura*): ? 1♂ dry - (Uncertainty for the claval stripe that is not narrow and touches exactly the clavo-chorial suture).
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - [(as *Erythroneura*) *Flammigeroidia*]: 5♂♂ of which 3♂♂ with white tarsi referable to ?*Erythroneura* (*Flammigeroidia*) ?*pruni* Edwards (but with a coloured forebody) in a plastic tube.

ZYGINA rhamni Ferrari, 1882

- Typhl. 46 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 6-X-56 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): 2♂♂ 2♀ ♀ dry. 2♂♂ 3♀ ♀ in alcohol - One of the ♀♀ prepared dry is of var *manca* Ribaut.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Rubus fruticosus* - (as *Erythroneura simplex* Ferrari): 2♂♂ 3♀ ♀ dry.
- Typhl. 52 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 14-X-56 - H.P. *Vitis vinifera*

- (as *Erythroneura simplex* Ferrari) - forma typica: 16 ♀ ♀ in alcohol, 4 ♀ ♀ dry; no ♂ ♂ - var *manca* Ribaut: 1 ♂ in alcohol, 2 ♀ ♀ dry - var *detrita* Rey: 3 ♂ ♂ dry, 4 ♂ ♂ in alcohol; no ♀ ♀ - (Cfr. Typhl. 46).

Typhl. 64 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Erythroneura simplex* Ferrari): 3 ♀ ♀ dry.

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura simplex* Ferrari): 4 ♀ ♀ dry.

Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. privet hedge (Picco's hedge) - (as *Erythroneura simplex* Ferrari): 3 ♀ ♀ dry.

Typhl. 71 - (Cfr. Typhl. 64) - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto and Maresciallo Garino's properties) - 10-XI-56 - H.P. *Quercus pedunculata* - (as *Erythroneura simplex* Ferrari): 1 ♂ 1 ♀ dry.

Typhl. 79 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field) - 30-III-57 - H.P. *Rubus fruticosus* - (as *Erythroneura simplex* Ferrari): 12 ♀ ♀ (3 dry, 9 in alcohol), no ♂ ♂ - (Cfr. Typhl. 85).

Typhl. 83 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 21-IV-57 - H.P. *Alnus glutinosa* - (as *Erythroneura simplex* Ferrari): 1 ♀ not preserved.

Typhl. 85 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field and hedge of Tululena's field; hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *Erythroneura simplex* Ferrari) - (Cfr. Typhl. 79) - I collected about one hundred individuals (only one ♂) - The "present" host plant is bramble, while in autumn it was grapevine. The different adults are reared on bramble, but it is difficult that the ♀ ♀ will lay eggs, because their host plant should be *Salix* (Ribaut). Presently I find very few adults of other typhlocybrids on bramble: *Empoasca flavescens* 2 ♀ ♀, *Erythroneura flammigera* 1 ♀, *E. tiliae* 1 ♀. Instead neanids and nymphs of *Typhlocyba ?debilis*, *T. ?rosae* are fairly abundant.

Typhl. 96 - PIEDMONT - Caluso (TO) - (Bramble hedge, Podio Guglielmo's field) - 22-V-57 - H.P. *Rubus fruticosus* - (as *Erythroneura simplex* Ferrari) - (var *detrita* Rey): presence of several individuals, all ♀ ♀ (no ♂ ♂), 3 dry - In all the individuals (♂ ♂ ♀ ♀) collected in spring there are no red pigments, that are replaced by faint yellow pigments. The ♀ ♀ collected today are still of the autumn generation. Maybe they are laying eggs on brambles in these days - (Cfr. Typhl. 97).

Typhl. 97 - PIEDMONT - Bussoleno-San Giorio (TO) - 23-V-57 - (as *Erythroneura simplex* Ferrari) - H.P. *Vitis vinifera* - (var *detrita* Rey): many ♀ ♀ (15) no ♂ ♂. 3 ♀ ♀ dry. Such ♀ ♀ have overwintered and now they are ready to lay eggs, while the ♂ ♂ have now disappeared (Cfr. Typhl. 96). The red pigments are not present neither on head nor on pronotum; they lack also on elytra, where in some ♀ ♀ there is however some yellow limited to the clavus - H.P. fig tree: presence of some ♀ ♀, arrived maybe from nearby grapevines.

Typhl. 103 - PIEDMONT - Bussoleno-San Giorio (TO) - 31-V-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): presence only of ♀ ♀ (5) not prepared - (Cfr. Typhl. 97).

- Typhl. 124 - PIEDMONT - San Giorio-Bussoleno (TO) - 5-VII-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): 2 ♀ ♀ dry.
- Typhl. 144 - APULIA - S. Giovanni Rotondo (FG) - (Pension Longo) - 22-VII-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): 3 ♂ ♂ 5 ♀ ♀ not prepared.
- Typhl. 149 - CALABRIA - Mottola (TA) - 23-VII-57 - H.P. grapevine - (as *Erythroneura simplex* Ferrari): 2 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Rhamnus frangula* - (as *Erythroneura*): 24 adults, of which 4 ♂ ♂ (1 dry, 3 in alcohol), 20 ♀ ♀ (5 dry, 15 in alcohol) - phot. 3,241: ♀ dorsal; 3,242: tegmen and wing of a ♀.
- Typhl. 162 - LIGURIA - Deiva Marina (SP) - (Small field of the Pension Clelia) - 17-VIII-57 - H.P. *Vitis vinifera* v ... (leaves neatly depigmented: small white areas) - (as *Erythroneura simplex* Ferrari) - var *difficilis* Ribaut: 2 ♂ ♂ - var *detrita* Rey: ♀ ♀. Presence of juveniles, 3 ♂ ♂ 2 ♀ ♀ dry, in particular 5th instar nymphs. The leaves on which the juveniles stay are the most depigmented ones, and are in the thicker foliage.
- Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - (Along the stream North-East of the village) - 17-VIII-57 - H.P. *Vitis vinifera* (leaves characteristically depigmented) - (as *Erythroneura simplex* Ferrari) - forma typica: 1 ♀ dry - var *detrita* Rey: 1 ♂ in alcohol, 6 ♀ ♀ (2 dry, 4 in alcohol) - Presence of several last instar nymphs, in alcohol with some exuviae. The grapevines visited by the insect, in this period, are those richer in luxuriant foliage that are in the small irrigated areas. The presence of this insect is revealed, besides by the adults, that fly away if disturbed, also by the leaves characteristically depigmented by juveniles. Phot. 4,300: last instar nymph; 4,301-4,302-4,303: depigmented leaves; 4,304: oviposition.
- Typhl. 167 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 19-VIII-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): presence of adults and nymphs. Leaves characteristically depigmented. 5 ♂ ♂ 5 ♀ ♀ - phot. 4,312: ♀ forma typica dry; 4,313: ♂ var *detrita* Rey dry.
- Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): forma typica: 2 ♀ ♀ dry - phot. 4,314: tegmen and wing - var *detrita* Rey: 7 ♂ ♂ (3 dry, 4 in alcohol), 3 ♀ ♀ (1 dry, 2 in alcohol) - var *manca* Ribaut: 2 ♂ ♂ 1 ♀ dry (the 2 ♂ ♂ have also the pronotum spotted of red) - Last instar nymphs: 2 in alcohol (the nymphs have also the pygofer and part of the legs yellow besides the two yellow stripes of the thorax).
- Typhl. 172 - TUSCANY - Porto S. Stefano (GR) - (Orbetello) - 1-IX-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): presence of several adults; forma typica 1 ♀; var *detrita* Rey 4 ♂ ♂ (1 of the ♂ ♂ is parasitized by *Aphelopus* and has the last 2 hind tarsi faintly infumate, instead of black).
- Typhl. 175 - CAMPANIA - Nola (NA) - 3-IX-57 - H.P. *Vitis vinifera*, few rows among renovation crops and vegetables. Fairly humid environment. Leaves characteristically depigmented - (as *Erythroneura simplex* Ferrari): presence of several adults; some are prepared (♂ ♂ / ♀ ♀ ratio 1:1); forma typica: 3 ♂ ♂ 5 ♀ ♀ dry; var *detrita* Rey: 3 ♂ ♂ 1 ♀ not prepared - Several ♂ ♂ of the forma typica show reddish spots also on pronotum and scutum.

- Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Vitis vinifera* (very depigmented leaves) - (as *Erythroneura simplex* Ferrari): forma typica: 3 ♀ ♀ dry; var *detrita* Rey: 1 ♂ 1 ♀ dry. N.B.: the ♂ and the ♀ of the var *detrita* have, besides orange spot traces on the elytra, also a median spot on the pronotum.
- Typhl. 179 - CAMPANIA - Anacapri (NA) - (Island of Capri) - 6-IX-57 - H.P. *Vitis vinifera* - (as *Erythroneura simplex* Ferrari): forma typica 2 ♀ ♀ dry (leaves of the H.P. characteristically depigmented).
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Corylus avellana* (wild) - (as *Erythroneura*): 4 ♂ ♂ 2 ♀ ♀ not prepared. In close vicinity there are *Rhamnus* plants.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura simplex* Ferrari): ! 1 ♂ dry.
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. grapevine (*Vitis labrusca*) - (as *Erythroneura simplex* Ferrari): forma typica: 7 ♀ ♀ (5 dry), var *manca* Ribaut: 1 ♀ dry (parasitized by *Aphelopus*); var *detrita* Rey: 6 ♂ ♂ dry - One 2nd instar neanid and 6 3rd, 4th and 5th instar nymphs in alcohol.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - H.P. *Ulmus campestris* - (as *Erythroneura*): 2 ♂ ♂ dry (nearby there are *Rhamnus* shrubs).
- Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Quercus pedunculata* (small bushes) - (as *Erythroneura simplex* Ferrari): 2 ♀ ♀ dry.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Erythroneura simplex* Ferrari): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 212 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura simplex* Ferrari): forma typica 5 ♀ ♀ dry, no ♂ ♂.
- Typhl. 220 - PIEDMONT - Caluso (TO) - 12-X-57 - H.P. *Vitis vinifera* (Vidano's vineyard) - (as *Erythroneura simplex* Ferrari): forma typica 13 ♀ ♀; var *detrita* Rey 7 ♂ ♂ 1 ♀ all in a plastic tube.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Erythroneura simplex* Ferrari): 1 ♀ not prepared.
- Typhl. 226 - PIEDMONT - Caluso (TO) - (Along the Canal - Tululena's field) - 26-X-57 - H.P. grapevine (Vidano) - (as *Erythroneura simplex* Ferrari): 6 ♂ ♂ 12 ♀ ♀ in a plastic tube (3 ♂ ♂ 6 ♀ ♀ to dr *Dlabola*).
- Typhl. 230 - PIEDMONT - Caluso (TO) - (Tululena's field) - 2-II-58 - H.P. *Rubus fruticosus* - [the individuals of the different species (*E. rhamni*, *E. tiliae*, *E. tithide*, *Empoasca pteridis*, editor's note) were preserved until 26-II-57 in a glass tube containing green bramble leaves. At the moment of their examination they were still all alive] - (as *Erythroneura* forma typica Ferrari 1882 = *simplex* Ribaut): 12 ♀ ♀, no ♂ ♂.
- Typhl. 232 - PIEDMONT - Caluso (TO) - 5-IV-58 - (as *Erythroneura* = *simplex* Ribaut) - H.P. *Rubus fruticosus* (Tululena's hedge): 14 ♀ ♀ no ♂ ♂; kept alive in a glass

- tube until 26-IV - No ♀ ♀ show developed eggs - H.P. *Lonicera* sp.: 3 ♀ ♀ not preserved.
- Typhl. 233 - PIEDMONT - Caluso (TO) - (Tululena's field) - 10-V-58 - (as *Erythroneura simplex*) - H.P. *Rubus fruticosus*: no ♂ ♂, 50 ♀ ♀ (reared on *Vitis* and *Rubus*; see viroses of *Vitis*) - H.P. *Lonicera* sp.: presence of several ♂ ♂ ♀ ♀ adults.
- Typhl. 236 - PIEDMONT - S. Giorio (TO) - 21-V-58 - (as *Erythroneura rhamni* = *simplex*) - H.P. *Vitis vinifera*: 15 ♀ ♀, no ♂ ♂ - Susa (TO) - (road to Cesana) - 21-V-58 - H.P. *Vitis vinifera*: 3 ♀ ♀.
- Typhl. 264 - PIEDMONT - Caluso (TO) - (Deandrea's vineyard) - 16-VIII-58 - H.P. *Vitis vinifera* - (as *Erythroneura rhamni* = *simplex*) forma *detrita*!!: 1 ♂ 2 ♀ ♀ in alcohol, proximal leaves depigmented - Vidano's vineyard - (as *Erythroneura rhamni simplex*), forma *detrita*!!!: 1 ♂ 5 ♀ ♀ in alcohol.
- Typhl. 273 - LIGURIA - Sanremo (IM) - (Locality Brezza property of the flower grower Grosso, hills East of Sanremo) - 18-X-58 - H.P. *Vitis vinifera* - (as *Erythroneura*): ♂ ♂ ♀ ♀ and nymphs not prepared - Presence of many leaves characteristically depigmented - I observed some adults; also some nymphs!!!
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - (as *Erythroneura* = *simplex* Ribaut) - H.P. *Salix alba*: 1 ♀ not prepared - H.P. *Rubus fruticosus*: 3 ♀ ♀ not prepared - San Giorio (TO) - (Xerothermic oases) - H.P. *Quercus sessiliflora*: 2 ♀ ♀ not prepared.
- Typhl. 277 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 9-XI-58 - H.P. *Vitis vinifera* (Barbera) in small cages - (as *Erythroneura* = *simplex* Ribaut): presence of many adults (mostly ♀ ♀); very few late nymphs, all 5th instars - 5 ♂ ♂ 30 ♀ ♀ in a plastic tube.
- Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - H.P. *Rubus fruticosus* - (*simplex*): 6 ♀ ♀ not prepared.
- Typhl. 314 - CALABRIA - Crotone - 8-VII-61 - Ente Riforma farm - H.P. *Vitis vinifera*: several ♂ ♂ ♀ ♀ (light) not prepared. Depigmented leaves.
- Typhl. 318 - SICILY - Catania - Mascalucia - (road to Etna) - 10-VII-61 - H.P. *Vitis vinifera* - var *detrita*: 8 ♂ ♂ 5 ♀ ♀ dry (1 ♀ parasitized by *Aphelopus*) - Presence of depigmented leaves in the thicker foliage sheltered by drystone walls. All specimens are very light, candid, creamy.
- Typhl. 322 - SARDINIA - Laerru (SS) - m 170 - 10-VIII-61 - H.P. *Vitis vinifera*: 2 ♂ ♂ 5 ♀ ♀ not prepared (light) - Depigmented leaves.
- Typhl. 328 - SARDINIA - Quartu S. Elena (CA) - (Along the road to Muravera) - 12-VIII-61 - H.P. *Vitis vinifera*: 3 ♂ ♂ 1 ♀ in a plastic tube.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Prunus spinosa*: 1 ♂ not prepared.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata*: 2 ♂ ♂ 3 ♀ ♀ not prepared - H.P. *Acer campestre*: 1 ♂ 1 ♀ not prepared - H.P. *Corylus avellana*: 2 ♀ ♀ not prepared - H.P. *Vitis vinifera*: 3 ♂ ♂ 6 ♀ ♀ dry.

- Typhl. 359 - FRIULI-VENEZIA GIULIA - Aquileia (UD) - (Outside the town, on the right of the road to Grado) - 2-X-61 - H.P. *Salix !aurita*: 3♂♂ (var *manca*), 3♀♀ (var *simplex*) dry.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - S. Croce (near the natural tunnel and along the seaside) - 3-X-61 - H.P. *Vitis vinifera*: 3♀♀ dry.
- Typhl. 370 - SARDINIA - Cagliari - Quartu S. Elena - 18-X-61 - H.P. *Vitis vinifera*: 28♂♂ 34♀♀ - ♀♀ all of the var *simplex* - !!!Many ♂♂ of the var *simplex*, but with light tarsi! (apparently parasitized!) - phot. 9,357: ♀ var *simplex* + colour; 9,358: ♂ var *simplex* with light tarsi + colour; 9,359: ♂ var *manca* + colour; 9,360: ♂ var *detrita* + colour; 9,361: last instar nymph + colour.
- Typhl. 371 - SARDINIA - S. Gregorio-S. Priamo (CA) - 18-X-61 - H.P. *Ulmus campestris* (hedge near vineyards): ♂♂♀♀ dry - Presence of plenty adults, among which many ♂♂ of the var *simplex* with light tarsi: left in rearing to see if such ♂♂ are parasitized, 24-XI-61: prepared dry - H.P. *Prunus armeniaca* (still very thick foliage): 1♂ dry - H.P. *Pistacia lentiscus*: 2♂♂ 3♀♀ dry.
- Typhl. 373 - SARDINIA - Cagliari - Villasimius - 18-X-61 - H.P. *Vitis vinifera* v - (next to the almond grove) - (Vineyards near the seaside between Villasimius and Geremias in view of Capo Carbonara): 6♂♂ 8♀♀ not prepared.
- Typhl. 375 - SARDINIA - Cagliari - La Maddalena - 19-X-61 - H.P. *Vitis vinifera* v (black) (rolled leaves, brown - violet red): 2♂♂ 4♀♀ dry.
- Typhl. 376 - SARDINIA - Cagliari - (Iglesias) - 19-X-61 - On the right of the road towards Domusnovas - H.P. *Vitis vinifera* (plants not attacked by *E. lybica*): 4♂♂ 4♀♀ not prepared.
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - H.P. *Rubus fruticosus*: 2♀♀ not prepared.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Rubus fruticosus*: 2♀♀ not prepared.
- Typhl. 385 - SICILY - Agrigento - m 230 - (Close to Pirandello's house) - 16-IV-62 - H.P. *Polygonum* sp. (shrub 2-3 m tall; clearly a winter H.P. like *Rubus fruticosus*): ♂♂♀♀ - H.P. *Prunus amygdalus* (almond): ♂♂♀♀ not prepared.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town towards Menfi) - 16-IV-62 - H.P. *Vitis vinifera* (plants with shoots 15-20 cm long): 3♀♀ dry - H.P. *Salix purpurea*!, *Salix caprea*!: ! 8♀♀ not prepared.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corraisi) near Oliena (NU) - 11-VIII-62 - I collected at the heights of m 1,000-1,100 - Oliena (NU) - H.P. *Vitis vinifera*: 2♂♂ 4♀♀ not prepared + juveniles.
- Typhl. 407 - SARDINIA - S. Teresa di Gallura (OT) - 13-VIII-62 - H.P. *Vitis vinifera*: 5♂♂ 5♀♀ dry.
- Typhl. 408 - SARDINIA - Bassacutena (OT) - (River Bassacutena-Bridge of the road Tempio-Palau) - 13-VIII-62 - H.P. *Vitis vinifera*: 3♂♂ 5♀♀ not prepared.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Vitis vinifera*: 3♂♂ 5♀♀ not prepared.
- Typhl. 425 - TUSCANY - Elba Island - Lacona (LI) - (Giaccone's house) - 20-IX-62 - Plains - H.P. *Vitis vinifera* v ... - (black grapes) - Leaf roll and reddening (zones)

not by *Empoasca*! but by ?infective degeneration or by ?senescence. Phot. 10,378-10,379 - v Procanico (presence of Aleatico too) - Yellowing and internerval burning not by *Empoasca*. A proximal leaf has symptoms of Infective degeneration mosaic. Phot. 10,380-10,382 - Maximum length of the leaf with symptoms cm 9.5 - Portoferraio (... house) - plains - *Vitis vinifera* v ... (black grapes) - Leaf roll and reddening checked by the Scuola Baldacci (winy red) not by *Empoasca* (but presence of *E. flavescens*). Phot. 10,410-10,411 transversal sections and phot. 10,409 longitudinal sections - v Procanico: ♂♂ ♀♀ not prepared + juveniles - Depigmented leaves - Marciana (LI) - H.P. *Vitis vinifera* v Procanico - Vineyard in a slope exposed northwards at a height of m 400 - Grapevines with a rich foliage, heavily infested by *Empoasca flavescens*. ♂♂ and ♀♀ dry + juveniles. Marginal burning is very obvious (in proximal leaves) and leafrolling too (in the still infested ones); yellowing is instead scarce. Phot. 10,385-10,386 - phot. 10,412-10,413-10,413 bis + A and B: sections - Presence of *Zygina rhamni* too that infests mainly the more protected leaves on the vertex of the pyramid, each one made of the convergence of 4 grapevine plants - **Drawing** - Pomonte (LI) (after Punta Nera) - H.P. *Vitis vinifera* v Procanico - Many plants affected by discontinuous chlorosis (some also by Fan Leaf). Several leaves show irregular series of dots (phot. 10,387-10,388) very near to the small dechlorophyllated areas due to *Zygina rhamni* attacks (♂♂ ♀♀ dry + juveniles) that in this vineyard is a pest. *Empoasca flavescens*: 2♂♂ 1♀ dry (phot. 10,389-10,391). While the dotting caused by discontinuous chlorosis is very obvious also watching the leaf in transparence (as both the palisade and the spongy mesophyll are involved) the small areas dechlorophyllated by *Z. rhamni* attacks are put in evidence only with oblique light (phot. 10,404-10,406, 10,406 bis, 10,406 ter: sections of leaves affected by discontinuous chlorosis); (phot. 10,407-10,408: sections of a leaf attacked by *Z. rhamni*).

Typhl. 426 - TUSCANY - Elba Island - Marina di Campo (LI) - 20-IX-62 - H.P. *Vitis vinifera*: ♂♂ ♀♀ + juveniles not prepared (common).

Typhl. 426 bis - TUSCANY - Elba Island - S. Ilario in Campo and S. Piero in Campo (LI) - (Gullies, near Ponti) - 20-IX-62 - H.P. *Castanea sativa* (bushes of the plant base): ♂♂ ♀♀ not prepared (coming from grapevines: windy days).

Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Locality exposed northwards, cool, at the height of m 400 approx., 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Vitis vinifera*: 9♂♂ 9♀♀ dry + juveniles (2♀♀ parasitized by *Aphelopus*) - H.P. *Castanea sativa* (very low bushes): 2♂♂ 2♀♀ not prepared.

Typhl. 440 - SARDINIA - Burcei (CA) - m 740 - 7-X-62 - H.P. *Vitis vinifera*: 8♂♂ 11♀♀ dry + juveniles.

Typhl. 442 - SARDINIA - S. Gregorio (CA) - 7-X-62 - H.P. *Vitis vinifera*: ♂♂ ♀♀ + juveniles not prepared.

Typhl. 443 - SARDINIA - Quartu S. Elena (CA) - 7-X-62 - H.P. *Vitis vinifera* - (vineyards near the cemetery): 2♂♂ 3♀♀ dry + juveniles.

Typhl. 444 - SARDINIA - Maracalagonis (CA) - 7-X-62 - H.P. *Vitis vinifera*: !♂♂ ♀♀ + juveniles not prepared - Relatively heavy attacks above all on grapevines with a thick foliage.

- Typhl. 444 bis - SARDINIA - Sinnai (CA) - 7-X-62 - H.P. *Vitis vinifera*: !♂ ♂ ♀ ♀ + juveniles not prepared - Still heavy attacks, but less intense than those recorded in the vineyards closer to the seaside of Quartu S. Elena.
- Typhl. 445 - SICILY - (Leg. dr Sampò) - Marsala (TP) - 9-X-62 - H.P. *Vitis vinifera*: 4♂ ♂ 10♀ ♀ dry (4♀ ♀ parasitized by *Aphelopus*).
- Typhl. 447 - SICILY - (Leg. dr Sampò) - Cinisi (PA) - (Near the airport of Punta Raisi) - 11-X-62 - H.P. *Vitis vinifera*: 2♂ ♂ 4♀ ♀ + juveniles not prepared - Leaves characteristically depigmented (collapse of the epidermis of the upper page, emptying of the palisade, necrosis) - Uncertain etiology (Mites? See preparation). Phot. 10,745, 10,746, 10,747: sections.
- Typhl. 451 - FRANCE - Agde (Herault) - (Thicket along the seaside) - 5-V-63 - H.P. *Vitis vinifera*: 5♀ ♀ not prepared - Sandy dunes on the sides of the national route.
- Typhl. 464 - LIGURIA - Isolabona (IM) - 15-VIII-63 - H.P. grapevine (*Vitis labrusca* cv Isabella): 1♂ 3♀ ♀ not prepared - Presence of very few adults.
- Typhl. 465 - FRANCE - Vence - (Nice) - 16-VIII-63 - H.P. grapevine (*Vitis vinifera* cv Malaga etc. - *Vitis labrusca* v Isabella: 2♂ ♂ 3♀ ♀ not prepared (presence of very few adults).
- Typhl. 467 - SARDINIA - Villasimius (CA) - (m 50) - 24-VIII-63 - H.P. *Vitis vinifera*: 28♂ ♂ 40♀ ♀ dry.
- Typhl. 468 - FRANCE - Urgosse (Gers) - 30-VIII-63 - (Domaine Garvage, Colavino Lorenzo) - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ and nymphs not prepared.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 479 - UMBRIA - Magione (PG) - 22-IX-63 - H.P. *Vitis vinifera*: 10♂ ♂ 8♀ ♀ not prepared.
- Typhl. 485 - JUGOSLAVIJA - Titograd (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. grapevine: 2a): 7♂ ♂ 8♀ ♀ dry to Papevic (much less than the previous one; *Arboridia dalmatina* Novak-Wagner, editor's note). I find it also on growing grapevine.
- Typhl. 495 - SICILY - (Determination of 10-VI-64) - Typhlocybidae of the Istituto Nazionale di Entomologia in Rome collected by Hartig in autumn 1948 in Sicily; Etna, South slope, Piano della Lepre, m 1,900 - Pedara (CT) - 600 m - 22-XI-48 - H.P. *Rubus fruticosus* - (*Erythroneura* sp. ♀, W. Wagner det. 1949): 1♀.
- Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 522 - JUGOSLAVIJA - Split - (Experimental field of the Institut Zajadranske Kulture) - 2-IX-64 - H.P. *Vitis vinifera*: 6♂ ♂ 8♀ ♀ dry + juveniles.
- Typhl. 524 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 500 - 3-IX-64 - H.P. *Vitis vinifera*: presence of *Z. rhamni* but not of *Arboridia dalmatina*.
- Typhl. 528 ter - JUGOSLAVIJA - Montenegro - Titograd (vineyard of the Institute of Agromomic Research) - 7-IX-64 - H.P. *Vitis vinifera*: ♂ ♂ ♀ ♀ + juveniles (2♂ ♂ 2♀ ♀ dry) as many as *A. dalmatina*.
- Typhl. 534 - ISRAEL - (Leg. dr Harpaz) - Rehovot - 10-X-64 - H.P. *Vitis vinifera*: 1♂ 1♀ dry.

- Typhl. 571 - SWITZERLAND - Canton Ticino - (Zones of Lugano and Locarno) - 29-X-66 - visit to vineyards infested by *Empoasca flavescens*, invited and accompanied by dr Baggiolini of the federal stations of agricultural experiments: Losanne - H.P. *Vitis vinifera* cv Merlot: 2♂♂ 3♀♀ not prepared.
- Typhl. 573 - JUGOSLAVIJA - Serbia - Sveta Petka, about 15 Km from Niš, on the left of the road Niš-Sofia - I collected between 300 and 500 m - 31-V-67 - Karstic locality, rich of *Salvia officinalis* - H.P. *Vitis vinifera*: ♀♀ not prepared.
- Typhl. 580 - SARDINIA - Typhlocybines of Sardinia (Prof. Romolo Prota) determined by Vidano and Arzone on 21 September 1977 - Palau (OT) - 10-VIII-77: 2 nymphs, 3 exuviae, 1 ruined adult dry in a plastic tube.
- Typhl. 595 - PIEDMONT - Vinchio (AT) - 6-IX-80 - H.P. *Vitis vinifera*: 5♀♀ not prepared (1♀ dryinidized).
- Typhl. 604 bis - PIEDMONT - S. Giorio (TO) - 7-VI-81 - H.P. grapevine: 1♀ not prepared.
- Typhl. 606 - PIEDMONT - Predosa (AL) - 14-VI-81 - H.P. *Vitis*: 1♀, some juveniles not prepared.
- Typhl. 613 - PIEDMONT - S. Giorio (TO) - 2-VIII-81 - (Travel with dr R. Whitcomb, Beltsville) - H.P. *Vitis vinifera* (very treated with pesticides and sulphur): 2♀♀ not prepared + juveniles.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Vitis vinifera*: ♂♂ ♀♀, nymphs present; not prepared.
- Typhl. 627 - PIEDMONT - Predosa (AL) - 26-VIII-81 - H.P. *Vitis vinifera*: 4♂♂ 6♀♀, presence of adults and juveniles - phot. (...): dryinidized ♂ mm 3.2 dry - Dorsal, ventral, details.
- Typhl. 637 - PIEDMONT - Predosa (AL) - 21-IX-81 - H.P. *Vitis vinifera* - Rearing D, Paolino's vineyard: 7♂♂ 11♀♀ of which 5♂♂ 3♀♀ dryinidized (one cocooned, not emerged), 1♀ pipunculidized (cocooned) - 17-XII-81 emerged *Chalarus* sp. nova *griseus* Coe dry!!! - Rearing E, Paolino's vineyard: 7♂♂ 12♀♀ of which 5♂♂ 6♀♀ dryinidized (3 cocooned, not emerged), 2♀♀ pipunculidized (2 pupated) - 5-XII-81 - !!!emerged 1 adult: *Chalarus* sp. near *griseus* Coe dry - Rearing F, Paolino's vineyard: 5♂♂ 9♀♀ of which 4♂♂ 7♀♀ dryinidized (none cocooned - Moulds, prof. Ozino), 1♂ 1♀ pipunculidized (pupated) - !! 21-XII-81 and 14-I-82 emergence of *Chalarus* sp. near *griseus* Coe - 2 specimens to Jarvis for their determination (given them to prof. Claridge on 4-X-82) - Rearing G, Paolino's vineyard: 3♂♂ 9♀♀ of which 2♀♀ pipunculidized (pupated, not emerged) - 2 specimens dry - 10-X-81 - 4 specimens with *Cladosporium cladosporioides* - 14-X-81 - 4 specimens with *Cladosporium cladosporioides* (prof. Ozino, Istituto Microbiologia) !!! 2 specimens to Jarvis for their determination on 20-V-83.
- Typhl. 638 - PIEDMONT - Predosa (AL) - 4-X-81 - H.P. *Vitis vinifera* - Rearing A: 5♂♂ 3♀♀ healthy, not prepared - Rearing B: 6♀♀ healthy, not prepared - Rearing C: 7♂♂ 6♀♀ of which 1♀ pipunculidized (pupated, not emerged), 1♀ dryinidized (non pupated larva) - Rearing D: 1♂ 6♀♀ healthy - Rearing E: 6♂♂ 3♀♀ of which 1♂ pipunculidized (pupated, not emerged) - Rearing F: 2♂♂ healthy.

- Typhl. 639 - PIEDMONT - Predosa (AL) - 13-VI-82 - H.P. *Vitis vinifera*: few ♂♂ ♀♀ and juveniles.
- Typhl. 639 bis - PIEDMONT - San Giorio (TO) - 20-VI-82 - H.P. *Vitis vinifera*: few ♂♂ ♀♀ and juveniles. *Malacocoris chlorizans*: few adults, juveniles of various instars.
- Typhl. 641 - PIEDMONT - Chiomonte (TO) - (Hamlet Ramats) - 4-VII-82 - H.P. *Vitis vinifera*: 3 ♀♀ (none pipunculidized) not prepared.
- Typhl. 642 - PIEDMONT - Predosa (AL) - 11-VII-82 - H.P. *Vitis vinifera*: 2♂♂ 2♀♀ not prepared, 2♀♀ dryinidized.
- Typhl. 648 - PIEDMONT - Predosa (AL) - 29-VIII-82 - H.P. *Vitis vinifera*: 16♂♂ 15♀♀ not prepared + 10 dryinidized specimens reared - 1♀ dissected, it contains 5 mature eggs.
- Typhl. 650 - LOMBARDY - Rovescala (PV) - 9 June - 21 September 1982 - (Leg. prof. Domenichini) - H.P. *Vitis vinifera* - Rovescala I - 25-VIII and 9-IX-82: 2♀♀ dryinidized - 21-IX-82: 4♂♂ 1♀ - Rovescala II - 23-VI-82: 1 nymph - 21-IX-82: 4♂♂ 9♀♀ 2 of which dryinidized; 2♂♂ 6♀♀ - S. Maria della Versa (PV) - 21-IX-82: 2♀♀.
- Typhl. 670 - LOMBARDY - Rovescala (PV) - II/III-84 - (Leg. prof. Domenichini) - (Cfr. Typhl. 650) - (as Typhl. 672!) - 19-I-84 - H.P. bramble: 9♀♀.
- Typhl. 672 - LOMBARDY - Piacenza and surroundings of Pavia - (as Typhl. 670) - I/III-84 - (Leg. prof. Domenichini) - Rovescala (PV) - 19-I-84 - H.P. bramble: 9♀♀ not prepared.
- Typhl. 687 - PIEDMONT - Predosa (AL) - 24-VI-84 - H.P. *Vitis vinifera* (beginning of blossoming!): 11♀♀ depigmented, white! ♀♀ dissected (dr Alma). I: no eggs; II: 3 mature eggs; III: 6 mature eggs; IV: 10 mature eggs.
- Typhl. 697 - PIEDMONT - Predosa (AL) - 8-VII-84 - H.P. *Vitis vinifera*: 1♂ 3♀♀ - Scarce, few depigmentations (♂ of the generation grown on grapevine) - Not pigmented individuals - Presence of *Anystis* sp., *Chrysopa* sp. (larvae), *Oecanthus pellucens* (2 neanids), predators of small arthropods among which Typhlocybinae neanids.
- Typhl. 705 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Vitis vinifera*: 9♂♂ 11♀♀ healthy; 1♂ 2♀♀ with *Chalarus*; 24♂♂ 16♀♀ with *Aphelopus* - Rearings: 23-VII-84, 3♂♂ 5♀♀ healthy on grapevine in a cage: yard of the arboretum; I await nymphs for *Aphelopus* - 4♂♂ 4♀♀ healthy on cut grapevine, in a plastic tube: corridor - I await the eggs for *Anagrus* - 10 dryinidized adults (♂♂ ♀♀), in glass tubes (with a grapevine leaf and some ground) dr Navone - 18 dryinidized adults (♂♂ ♀♀) (idem dr Arnò) - 10 dryinidized adults (♂♂ ♀♀), in Petri dishes (grapevine leaves and ground); Demichelis - 2 dryinidized ♀♀ dead in Petri dishes with grapevine leaves and some ground - 24-VII, also the dryinid larvae are dead.
- Typhl. 713 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Vitis vinifera* - (Cfr. Typhl. 705) - 13♂♂ 18♀♀ not prepared (reared 3♂♂ 3♀♀ dryinidized: 1♂ 4♀♀ emptied by a *Chrysopa perla* larva in a glass tube) - *C. perla* adults and isolated pedunculate eggs abundant in Predosa vineyards.
- Typhl. 725 - PIEDMONT - Predosa (AL) - 9-IX-84 - H.P. *Vitis vinifera*: 24♂♂ 24♀♀ not prepared (1♂ dryinidized) - *Malacocoris chlorizans*: 6 specimens not prepared - *Chrysopa perla*: 1 specimen not prepared. The specimens of *Zygina*, *Empoasca*,

Scaphoideus and *Malacocoris* are used by dr Arnò for rearings.

- Typhl. 734 - PIEDMONT - Predosa (AL) - 23-IX-84 - (Material used by Arnò) - H.P. *Vitis vinifera* (Paolino's vineyard): 18♂♂ 24♀♀ (12♂♂ dryinidized) reared - *Malacocoris chlorizans*: 3♂♂ 1♀ dry - *Chrysopa perla*: 4 specimens - *Oecanthus pellucens*: 2♂♂ 4♀♀ dry - *Meconema* (apterous): 1♀ - *Phaneroptera 4-punctata*: 1♂ 1♀ - *Ph. falcata*: 1♀ dry.
- Typhl. 761 - PIEDMONT - Chianocco (TO) - 16-VI-85 - H.P. *Vitis vinifera*: 1 1st instar neanid.
- Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - Leg. Vidano-Arzone - H.P. *Vitis vinifera*: 1♂ 1♀ newly emerged not prepared + 2 nymphs.
- Typhl. 769 - PIEDMONT - Predosa (AL) - 7-VII-85 - H.P. *Vitis vinifera*: 1♂ 2♀♀.
- Typhl. 770 - VENETIA - Costozza - Longare (VI) - 9-VII-85 - h 16-18 - Farm of Conte Alvise da Schio - 60 fields, 25 ha - H.P. *Vitis vinifera* (Pinot bianco), 3 lots affected by FD: 1♂ 1♀ (dryinidized).
- Typhl. 771 - VENETIA - Nanto (VI) - 9-VII-85 - h 18,30-20,30 - Nani Antonio's farm - H.P. *Vitis vinifera*: see joint sheet.
- Typhl. 772 - VENETIA - Ponte di Barbarano (VI) - (I slept in the hotel S. Giorgio) - 10-VII-85 - h 8-9 - Vegetable garden near the hotel - H.P. *Vitis vinifera* cv Garganega (healthy): 2♀♀ not prepared.
- Typhl. 773 - VENETIA - Ponte di Barbarano (VI) - 2-3 Km more southwards towards Rovolon (PD) - 10-VII-85 - h 9-10 - H.P. *Vitis vinifera* - Barbera, with leaf indentation (phot.) vineyard with about 400 plants; 5 plants with rolled and reddened leaves (?FD) phot. ground infested by *Amaranthus*: 2♀♀ not prepared - *Scaphoideus titanus*: 4♂♂ 2♀♀ + nymphs: 1 3rd instar, 1 4th instar, 3 5th instars.
- Typhl. 775 - VENETIA - Luvigliano (PD) - 10-VII-85 - (Villa del Vescovo) - h 11,00-12,30 - H.P. grapevine, various cultivars, including Moscato, all without FD symptoms: 1♂ 1♀ not prepared - No *Scaphoideus titanus*.
- Typhl. 781 - VENETIA - Giavera del Montello (TV) - 11-VII-85 - h 9,30 - H.P. grapevine (?Merlot) - on the foot of the hill, in a meadow - phot. symptoms by ?*Empoasca*: 1♂ 1♀ (reared by Arnò) - *Scaphoideus titanus* - 4 juveniles, 2 3rd instar and 2 4th instars.
- Typhl. 786 - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Refrancore) - 21-VII-85 - h 9,30 - H.P. grapevine cv Barbera: hailstorm storm from the North, unharmed southwards: 2♀♀ (1 dryinidized, Arnò).
- Typhl. 788 - PIEDMONT - Predosa (AL) - 21-VII-85 - h 15-18 - H.P. *Vitis vinifera* cv Barbera (Paolino's vineyard) - Leaf indentation - virus leafroll rolling and reddening by *Empoasca*: 2♀♀ in internal leaves of bushy plants.
- Typhl. 791 - PIEDMONT - Candia Canavese (TO) - 24-VII-85 - h 9,30 - Gnavi's vineyard (dr C. Gnavi's son) - H.P. grapevine (4 rows; phot. plants of the first row: only one plant with FD symptoms and *Empoasca*; symptoms much more obvious in Erbaluce than in Pinot grigio) - ?Pinot bianco (some plants!!), young Erbaluce vineyard in rows, well cultivated but regrazed (? Piedmontese giornata, surface measure, editor's note) - *Z. rhamni* missing - *Scaphoideus titanus*: 1♂ (reared by Arnò). Erbaluce: phot. proximal thickened, rolled leaves, with vein browning, FD yellows - presence of *E. vitis* juveniles (1st and 5th instar): even 8-10/leaf. Leaves with symptoms like

above, but without vein browning and without *Empoasca*: ?Virus leafroll or FD. Plants without rolled leaves, not thickened and without other symptoms - No *Empoasca* - Suckers: without symptoms (everywhere).

Typhl. 792 - PIEDMONT - Candia Canavese (TO) - (Pachier) - 24-VII-85 - H.P. grapevine Erbaluce (4 Piedmontese giornate, surface measure, editor's note) rows, regrazed (above all bermuda grass): 1♂ 1♀ (Arnò).

Typhl. 801 - SICILY - Miano di Valledolmo (PA) - m 700 - 3-VIII-85 - (Near Regaleale Nuova. Exit of the motorway Catania-Palermo at Scillano towards Sclafani towards Valledolmo towards hamlet Miano) - H.P. grapevine v Catarratto and v Inzolia (white) - Meeting with Mr Gargano (a son priest, a daughter professoress, and a daughter studentess) - Grapevines with mildew: heavily treated with sulphur - Neighbour's grapevine v Catarratto with ?FD symptoms: 2♂♂ 2♀♀ dry - grapevine v Catarratto - Fenced vineyard near the provincial and country roads: farm of Messrs Conti Benedetto and Sebastiano - heading plants with ?FD symptoms - Photo - Talked with "grafter" and his wife: grapevines with downward rolling, elastic canes, etc. considered healthy by the grafter.

Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano: white) - I talked with the wine grower. Present of 6 melons - No symptoms, presence of vegetable crops (melons, tomatoes): 6♂♂ 2♀♀ dry - H.P. *Convolvulus*: 3♂♂ 2♀♀ (pigmented: dryinidized).

Typhl. 805 - SICILY - Dattilo (municipality of Paceco) (TP) - m 100 - 4-VIII-85 - H.P. grapevine (pergola): 2♂♂ dry (faint dechlorophyllations).

Typhl. 808 - SICILY - Birgi Vecchi (TP) - m 10-20 - 5-VIII-85 - (Wind) - H.P. grapevine cv Palpate (black grapes): 4♂♂ 7♀♀, non pigmented specimens - 1♀ dryinidized - phot. plant with rolled and reddened leaves, but with mature canes.

Typhl. 809 - PIEDMONT - Spineto (TO) - (Castellamonte) - 11-VIII-85 - H.P. grapevine (Barbera, Cardinal, Freisa, Erbaluce): 8♀♀ + juveniles - No *Scaphoideus titanus* - Leaves with convergences and overlapping of symptoms: virus leaf roll, FD? - *Convolvulus sepium*!

Typhl. 814 - PIEDMONT - Barolo (CN) - (Farm of Borgogno brothers) - 18-VIII-85 - H.P. grapevine (v Nebbiolo?) - Ploughed, without weeds (except tufts here and there of *Convolvulus arvensis* in the interrows!) - Luxuriant - Some slight leafrolling (?Leafroll): 1♂ 1♀ - phot. also of the landscape and the sign: "Barolo".

Typhl. 829 - PIEDMONT - Predosa (AL) - 1-IX-85 - H.P. grapevine (Capriata's vineyard): 2♂♂ 4♀♀.

Typhl. 831 - PIEDMONT - Bricherasio (TO) - (Pinerolo) - 8-IX-85 - H.P. *Vitis* (Freisa, Bonarda, Barbera) in an uncultivated vineyard, canes with a caulinar bottle-neck and rolled distal leaves, reddened by *Stictocephala bisonia* attacks: 8♂♂ (3 with *Aphelopus*) 8♀♀ (3 with *Aphelopus*) reared by Arnò. Counting of eggs with separate leaves (dr Arnò) - Foliar symptoms: *Empoasca*, *Zygina* - FD or Bois Noir on 5 neglected plants (along the road): Barbera - Bois Noir on grapevine Luglienga near a house.

Typhl. 834 - PIEDMONT - Predosa (AL) - 15-IX-85 - H.P. grapevine (ripe grapes): still green leaves on the best plants, towards reddening in Barbera, Dolcetto, and Freisa - Paolino's vineyard - Virus leafroll obvious in Barbera plants: normal lignification

- Leafroll caused by *Empoasca* in Cortese plants - Capriata's vineyard, very little Virus leafroll in Barbera: normal lignification - little Leafroll caused by *Empoasca* in luxuriant Barbera - Luglienga: 3 plants with Leafroll: caused by virus or *Empoasca* (plenty *Empoasca* and vein browning) - Cortese: vineyard near an apple grove with plants of the heading showing Leafroll: caused by virus or *Empoasca*. On the East side few symptoms and few *Empoasca*, on the West side strong rolling, a lot of *Empoasca* and remarkable apical vein browning - Counting of eggs by dr Arnò - Moscato: vineyard near the building with plants of the heading (near the road) showing Leafroll: phot. for FD or ?Bois Noir on 21-VII-85 - (Cfr. Typhl. 788) - Now: normal lignification (except 2 green proximal suckers) - Leafroll on the West side (with *Empoasca* and vein browning) - normal leaves on the East side - Egg counting by dr Arnò - 17♂♂ (2 with *Aphelopus*), 18♀♀ (2 with *Aphelopus*).
- Typhl. 836 - TUSCANY - Elba Island - Marciana (LI) - m 400 - 27-IX-85 - H.P. grapevine; cv Procanico (the same as Trebbiano) - Small trees (tall) - I collected canes with series of 14-18 leaves with rolling, vein browning and (the proximal ones) marginal burning - phot. - Counted by dr Arnò - 2♂♂ not prepared.
- Typhl. 838 - PIEDMONT - Predosa (AL) - 29-IX-85 - H.P. grapevine: 12♂♂ 14♀♀ in single rearings for parasites. *Chrysoperla carnea*: 8 - *Oecanthus pellucens*: 1♂ 1♀, released in the arboretum and not reared because not so healthy.
- Typhl. 841 - PIEDMONT - Predosa (AL) - 1-XI-85 - H.P. grapevine (Capriata's vineyard, cv Moscato): 2♀♀ + nymphs not prepared - Canes with leaves rolled by *E. vitis* (countings by dr Arnò) - cv Cortese - Canes with leaves rolled by *E. vitis* (countings by dr Arnò) - Paolino's vineyard cv Barbera - Canes with leaves rolled by *E. vitis* (countings by dr Arnò).
- Typhl. 846 - SARDINIA - Solanas (CA) - 30-IV-86 - H.P. grapevine: 1♂ dry, 11♀♀ reared.
- Typhl. 851 - PIEDMONT - Predosa (AL) - 15-VIII-86 - H.P. *Vitis* (Capriata's vineyard cv Moscato): 1♂ 10♀♀ + 2 5th instar juveniles (no parasites) - *Malacocoris chlorizans*: 2♂♂ 5♀♀ - Paolino's vineyard (Barbera and Cortese): 5♀♀ (no parasites) - *Malacocoris chlorizans*: 1♀ - *Chrysoperla carnea*: 1♀ - *Oecanthus pellucens*: 1♂ 1♀.
- Typhl. 852 - PIEDMONT - Predosa (AL) - 17-VIII-86 - H.P. grapevine (Capriata's vineyard): 9♂♂ 10♀♀ without parasites.
- Typhl. 857 ter - PIEDMONT - Predosa (AL) - 21-IX-86 - H.P. *Vitis vinifera* (Capriata's and Paolino's vineyards): 22♂♂ 22♀♀ not prepared (3♂♂ 3♀♀ dryinidized) - *Chrysoperla carnea*: 1♀.
- Typhl. 859 - VENETIA - Maserada sul Piave (TV) - Leg. Arzone, Alma, Arnò - 24-IX-86 - farm Tonini - H.P. *Vitis*: Pinot (bianco) with FD or BN - Merlot (black), Prosecco (white): without symptoms: 2♂♂ 4♀♀.
- Typhl. 861 - FRIULI-VENEZIA GIULIA - Cividale (UD) - 25-IX-86 - H.P. *Vitis* (without regrazing); Pinot bianco with BN or FD symptoms? - Camembert (black) without symptoms: 1♂ 1♀ not prepared. See joint sheet.
- Typhl. 862 - FRIULI-VENEZIA GIULIA - Prepotto - Hamlet of Cialbe (UD) - 25-IX-86 - H.P. *Vitis* (well grown) ?Pinot bianco with BN or FD? - *Empoasca vitis*? *Zygina*

rhamni? No *Arboridia dalmatina*.

- Typhl. 863 - FRIULI-VENEZIA GIULIA - Prepotto, towards Albana (UD) - 25-IX-86 - H.P. *Vitis*, Pinot bianco (*Phylloxera*): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 864 - FRIULI-VENEZIA GIULIA - Podresca (UD) - 25-IX-86 - Leg. Arzone, Alma, Arnò - H.P. *Vitis* (?Pinot, scarce symptoms): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 869 - VENETIA - Nanto (VI) - 26-IX-86 - H.P. *Vitis* (Cozza Aldo's farm) - Pinot bianco: BN or FD symptoms? - Rolling, vein yellowing, bunches with withered grapes: canes for cuttings: 1 ♂ 7 ♀ ♀ not prepared - Treatments - Sauvignon (white) - *Phylloxera*.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Vitis vinifera* (Paolino's vineyard): 20 ♂ ♂ 20 ♀ ♀ not prepared (none pipunculidized or dryinidized) - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 2 ♂ ♂ 2 ♀ ♀.
- Typhl. 898 - PIEDMONT - Predosa (AL) - 7-VI-87 - H.P. *Vitis vinifera* (Predosa vineyard): collecting convenient on the few plants (2-3 per row + luxuriant) - (I collected using a glass tube - ploughed ground - near wastelands) - *Scaphoideus titanus*: 16 1st instar neanids, 5 2nd instar reared - ♂ ♂ ♀ ♀ not prepared - Paolino's vineyard, near Capriata's vineyard - *S. titanus*: 24 neanids reared (10 1st instars, 14 2nd instars) - (Only on leaves of upright canes) - 3 ♀ ♀ not prepared and not pigmented.
- Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. grapevine (Paolino's vineyard): 1 ♀ - *S. titanus*: 2 ♂ ♂ - Capriata's vineyard (near a wasteland): 2 ♂ ♂ 1 ♀ - *S. titanus*: 1 ♀ - Paolino's and Capriata's vineyards (near *Prunus*): 2 ♂ ♂ 5 ♀ ♀ - *S. titanus*: 1 ♂ + 1 5th instar nymph - *Stictocephala bisonia*: 1 ♂ - Capriata's vineyard (Moscato): 3 ♀ ♀ - All not prepared. *Zygina rhamni* not dryinidized.
- Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard) - FD: 2 plants with symptoms in the 23rd row (countings by dr Alma): 1 ♂ 9 ♀ ♀ not prepared.
- Typhl. 908 - GREECE - Thessaloniki - Agias Trias - (Sun Beach Hotel) - 7-X-87 - H.P. *Vitis* - (treated with pesticides): 7 ♂ ♂ 3 ♀ ♀ dry. Some nymphs, and some leaves with depigmentations. *Chrysoperla carnea*: 8 ♂ ♂ - *Anystis baccarum*: 3 individuals in alcohol. Phot. surroundings.
- Typhl. 909 - GREECE - Naoussa - Virginia - 7-X-87 - H.P. grapevine: 17 ♂ ♂ 19 ♀ ♀ dry + nymphs and depigmented leaves.
- Typhl. 916 - PIEDMONT - Predosa (AL) - 28-VI-88 - Dr Alma - H.P. grapevine (Paolino's vineyard): ♂ ♂ ♀ ♀ - *S. titanus* neanids + 4th and 5th instar nymphs not prepared.
- Typhl. 917 - AOSTA VALLEY - Nus (AO) - m 700 - 30-VI-88 - H.P. grapevine: ♂ ♂ ♀ ♀ + juveniles not prepared - *Chrysoperla carnea*: eggs and adults - *S. titanus* not found.
- Typhl. 919 - AOSTA VALLEY - Aosta - St. Pierre - Torrette m 900 - 30-VI-88 - H.P. grapevine (in bloom; regrazed vineyard): ♂ ♂ ♀ ♀ + juveniles - *S. titanus* not found.
- Typhl. 921 - PIEDMONT - Carema (TO) - 30-VI-88 - H.P. grapevine (along the road): ♂ ♂ ♀ ♀ + juveniles - *S. titanus* not found.
- Typhl. 924 - PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. grapevine (locality Borbore): 2 ♀ ♀ not prepared - *S. titanus*: 3 ♂ ♂ 3 ♀ ♀ + a 4th and a 5th instar nymph, not prepared.
- Typhl. 934 - LOMBARDY - Nuvolento (BS) - 30-VII-88 - H.P. grapevine (regrazed vineyard): 1 ♂ 3 ♀ ♀ not prepared. *S. titanus* missing - FD symptoms missing.

- Typhl. 937 - LOMBARDY - Rovescala (PV) - 30-VII-88 - H.P. grapevine (symptoms of virus Leafroll): few ♂ ♂ ♀ ♀ not prepared - *S. titanus*: 2♂ ♂ 4♀ ♀ and 2 nymphs not prepared.
- Typhl. 954 - PIEDMONT - Neive (CN) - (Locality Gallina) - 30-VIII-88 - Vineyard of the Chair of Viticulture - H.P. grapevine "Chardonnay": ♂ ♂ ♀ ♀ not prepared. Phot. 3 plants with FD - "Pinot bianco": first row with a plant with FD: phot.
- Typhl. 970 - PIEDMONT - Barbaresco (CN) - 25-VII-89 - H.P. *Vitis*: 1♂ 10♀ ♀ not prepared.

ZYGINA rorida (Mulsant & Rey, 1855)

- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* (as *Erythroneura*): 1♂ dry, phot. 3,592.
- Typhl. 177 - CAMPANIA - Punta S. Angelo-S. Agata sui Due Golfi (NA) - 4-IX-57 - (Miss Todeschini's property - Miramare-Sorrento) - H.P. chestnut (leaves, above all of the branches closer to the ground, very depigmented) - (as *Erythroneura*): 1♂ dry (poorly pigmented).
- Typhl. 184 - LATIUM - Montalto di Castro (VT) - 9-IX-57 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Erythroneura*): 1♂ 2♀ ♀ dry.
- Typhl. 202 - LIGURIA - Staglieno (GE) - (Stream Bisagno) - 2-X-57 - (as *Erythroneura*) - H.P. *Quercus sessiliflora* (left orographic slope): 3♂ ♂ 3♀ ♀ dry - H.P. *Quercus ilex*: 1♂ 1♀ not prepared.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Erythroneura*) - var *quadripunctata* nova: 1♂ dry with 4 small red spots in front of cicatrix and scutellum.
- Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Non karstic small valley, on the opposite side of the road than Typhl. 351) - 1-X-61 - H.P. *Quercus pubescens*: 2♂ ♂ 1♀ dry.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Rhus cotinus* (far from the cave, in karstic areas): 1♂ dry.
- Typhl. 382 - SICILY - Passo Zingaro (CT) - m 650 - m Etna (after Adrano) - 12-IV-62 - H.P. *Quercus pubescens* (with many 1961 leaves still partially green): 8♂ ♂ 5♀ ♀ dry (♂ ♂ of the var *costalis*).
- Typhl. 446 - SICILY - Ventimiglia (PA) - (Leg. dr Sampò) - 10-X-62 - H.P. *Quercus lanuginosa*: 1♂ dry.
- Typhl. 451 - FRANCE - Agde (Hérault) - (Thicket along the seaside) - 5-V-63 - H.P. *Quercus pedunculata*: 3♀ ♀ dry (faintly pigmented specimens - Yellowish pigments).
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris*: 1♂ 2♀ ♀ not prepared.
- Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Quercus sessiliflora*, *Q. cerris*: 1♀ not prepared.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.): 2♂ ♂ not prepared.

- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of the national route Arezzo-Florence, near the farm Gratena) - H.P. *Quercus sessiliflora* (mixed with *Q. ilex*): 3♂♂ 3♀♀ dry. To Servadei: 1♂ 1♀, April 1971.
- Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) m 1,100 (near the restaurant on the road Sinj-Livno) - 4-IX-64 - karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - Beginning of the North-East slope of Dinara Planina, Dolinas, etc. - m 900 - Very sunny karstic zone, with low bushes of *Quercus* 2-3 Km downstream of Vaganj, towards Sinj - H.P. *Quercus cerris* and *Q. pubescens* (bushes): 1♂ 1♀ dry.
- Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - H.P. *Quercus pubescens*: 4♂♂ 2♀♀ dry - phot. (...): ♂ mm 2.8.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1♂ dry.

ZYGINA rubrovittata (Lethierry, 1869)

- Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - 17-VIII-57 - H.P. *Erica arborea* - (as *Erythroneura*): species scarcely present and only on *E. arborea*, while it seems missing on *E. carnea*. Nymphs with long antennae, but not as long as the body - 3♂♂ (1 dry, 2 in alcohol), 5♀♀ (2 dry, 3 in alcohol) - 1 nymph in alcohol. On the same plant along the seaside it seems that this species is missing - In none of the specimens the pigments are well expressed and therefore it is difficult to compare them with the description by Ribaut, who mentions *Calluna vulgaris* as a host plant. But one must keep in mind that this *Erythroneura* species has as a synonym *ericetorum* J. Sahlberg.
- Typhl. 333 - SARDINIA - Arcu Correboi Valley (NU) - (Near the mine and the barracks of Carabinieri near the pass, but not in the valley) - 14-VIII-61 - H.P. *Erica arborea* - (as *Erythroneura*): 1♂ 1♀ dry.
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 - 14-VIII-62 - (as *Flammigeroidia*) - H.P. *Erica arborea* (det. Ariello!) (m 1,200): 1♂ 2♀♀ dry - H.P. *Castanea sativa* (m 900) (relatively small and bushy plants, in a reforestation among *Erica scoparia*, small holm oaks, *Arbutus unedo*, *Rubus fruticosus*, etc.) - Windy day: 2♀♀ dry (coming from *Erica scoparia*).
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Erica arborea*, *Calluna vulgaris* - (as *Flammigeroidia*): 1♀ dry.
- Typhl. 428 - TUSCANY - Elba Island - Marciana (LI) - (Cool locality exposed northwards, at the height of m 400 approx., 1 Km before the village, coming from Poggio) - 20-IX-62 - H.P. *Erica arborea* - (as *Flammigeroidia*): ♂♂♀♀ not prepared.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Erica arborea* - (as *Flammigeroidia*): ♂♂♀♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right

of national route Arezzo-Florence, near the farm Gratenà) - H.P. *Erica ?arborea* - (as *Flammigeroidia*): ♂ ♂ ♀ ♀ not prepared.

ZYGINA *suavis* Rey, 1891

Typhl. 5 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola*) - The only species present on this plant; the leafhoppers could have arrived there from a nearby apple grove: 1 ♂ dry, 1 ♂ 1 ♀ in alcohol.

Typhl. 54 - PIEDMONT - Ternavasso (TO) - (Near the lake) - 18-X-56 - (as *Erythroneura inconstans*) - H.P. *Salix caprea* (near Gramineae): 1 ♂ dry - H.P. *Quercus* sp. (with Gramineae nearby): 9 ♂ ♂ (4 dry, 5 in alcohol) - I note that they have completely brown genital blades; they have the vertex well pigmented and the scutum not only bordered of red, but with more drawings. A ♂ has no red pigments - H.P. *Pinus strobus*: 2 ♂ ♂ dry, 4 ♀ ♀ (1 dry, 3 in alcohol) - Also these individuals have the vertex well pigmented with red (Cfr. Typhl. 61).

Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* - (as ?*Erythroneura inconstans* Ribaut): 14 individuals of which 7 ♂ ♂ (2 dry, 5 in alcohol, 2 not pigmented), 7 ♀ ♀ (2 dry, 5 in alcohol) - (Cfr. Typhl. 54) - I am not sure of this determination, based above all on the absence of the fumose colour. It is a very close species to *E. tiliae* with which it lives. It is worthwhile examining the genital characters of both supposed species!!

Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Strong bushes made of basal suckers grown 3-4 months ago after felling big trees to instal a tension line. The foliage is still thick and green, while that of normal bushes is scarce and yellow - (as *Erythroneura inconstans* Ribaut): 26 individuals of which 15 ♂ ♂ (3 dry, 12 in alcohol), 11 ♀ ♀ (3 dry, 8 in alcohol). The red coloured areas are uniform in the various individuals. Based on the great majority of specific characters, I tend towards *E. inconstans*; however the ♂ ♂ do not have the genital blades "very infumate" as Ribaut writes, but the pigment do not seem well expressed neither in the other parts of the body.

Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura inconstans* Ribaut): 31 individuals of which 14 ♂ ♂ (3 dry, 11 in a celluloid tube), 17 ♀ ♀ (3 dry, 14 in a celluloid tube) - They are probably young individuals - In the ♂ ♂ the genital blades are not well infumate - (Cfr. Typhl. 62).

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura inconstans* Ribaut): 85 individuals of which 37 ♂ ♂ (6 dry, 31 in a celluloid tube), 48 ♀ ♀ (1 phot. 3,587: 6 dry, 41 in a plastic tube).

Typhl. 74 - PIEDMONT - Caselette (TO) - (Oak wood) - 27-II-57 - H.P. *Juniperus communis* - (as *Erythroneura inconstans* Ribaut): 1 ♂ not prepared.

Typhl. 76 - PIEDMONT - Ternavasso (TO) - (Clearing in the wood beneath the new ten-

- sion line) - 27-III-57 - Biotope: dry *Quercus* leaves on the ground and on the plant (bushes) - (as *Erythroneura inconstans* Ribaut): 14 ♀ ♀ in alcohol, no ♂ ♂.
- Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - (as *Erythroneura inconstans* Ribaut) - H.P. *Juniperus communis*: 6♂ ♂ 7 ♀ ♀ in alcohol - H.P. *Pinus sylvestris*: 3♂ ♂ 2 ♀ ♀ in alcohol - 1♂ has tarsi light like the tibiae.
- Typhl. 83 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 21-IV-57 - H.P. *Alnus glutinosa* - (as *Erythroneura inconstans* Ribaut): !adults mixed with *E. tiliae*, 2♂ ♂ 3 ♀ ♀ in alcohol - phot. 3,813: 1 ♀ dry with the mesosternum not black! - (Cfr. phot. 3,587).
- Typhl. 84 - PIEDMONT - Caluso (TO) - (Tululena's apple grove) - 21-IV-57 - H.P. apple tree - (as *Erythroneura inconstans* Ribaut): 2 ♀ ♀ not prepared.
- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of San Giorgio) - 27-VI-57 - H.P. *Rhamnus frangula* - [as *Erythroneura (rhamni* Ferrari) *rhamnicola* Horváth)] - adults collected: 1♂ 1 ♀ var *suavis* Rey dry, 2 ♀ ♀ forma typica dry - Reared 4♂ ♂ 7 ♀ ♀ in alcohol with neanids and nymphs - Adults and juveniles determine the appearance of the usual dechlorophyllated areas. Neanids and nymphs with very long antennae.
- Typhl. 169 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 26-VIII-57 - H.P. *Carpinus betulus* - (as *Erythroneura inconstans* Ribaut): 1♂ 4 ♀ ♀ dry (the genital blades of the ♂ are not brown). The metanotum is not infumated.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura inconstans* Ribaut): 1♂ 2 ♀ ♀ not prepared.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* (plant present in the coppice wood and in hedges as isolated shrubs), characteristically depigmented leaves - (as *Erythroneura inconstans* Ribaut): ! 1♂ dry.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Carpinus betulus* - (as *Erythroneura inconstans* Ribaut): 1♂ 2 ♀ ♀ not prepared.
- Typhl. 190 - PIEDMONT - Stupinigi (TO) - (Wood on the right of the road to Pinerolo) - 18-IX-57 - H.P. *Quercus pedunculata* - (as *Erythroneura inconstans* Ribaut): 2♂ ♂ 2 ♀ ♀ dry.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura inconstans* Ribaut): ♂ ♂ ♀ ♀ not prepared.
- Typhl. 204 - PIEDMONT - Trofarello (TO) - (Sports ground) - 4-X-57 - H.P. *Tilia europaea* - (as *Erythroneura ?inconstans* Ribaut): 2♂ ♂ 2 ♀ ♀ dry. The ♂ ♂, maybe because too young, have not brown tarsi and genital blades.
- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Erythroneura inconstans* Ribaut): many ♂ ♂ ♀ ♀ ; 4♂ ♂ 2 ♀ ♀ dry - N.B.: presently there are no *Erythroneura ordinaria* Ribaut on oak.
- Typhl. 209 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 6-X-57 - H.P. *Rhamnus frangula*, *Alnus glutinosa* - (as *Erythroneura inconstans* Ribaut): 13♂ ♂ (3 dry, 10 in a plastic tube), 15 ♀ ♀ (3 dry, 12 in a plastic tube).
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) -

- (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - (as *Erythroneura inconstans* Ribaut) - H.P. *Alnus incana*: 1 ♂ 3 ♀ ♀ dry - H.P. *Populus nigra*: 1 ♀ not prepared.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Erythroneura inconstans* Ribaut): 1 ♂ 1 ♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Strada Valpiana 31, Istituto Difesa del Fanciullo) - 14-X-57 - H.P. *Sophora japonica* - (as *Erythroneura inconstans* Ribaut): 2 ♀ ♀ not prepared.
- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - H.P. *Laurus nobilis* - (as *Erythroneura inconstans* Ribaut): 1 ♀ not prepared.
- Typhl. 234 - PIEDMONT - Barone Canavese (TO) - 19-V-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* Horváth): 12 ♀ ♀ (with gold yellow pigments on the elytra by now imperceptible), no ♂ ♂ - Reared on *R. frangula* + *Vitis vinifera* + *Cornus sanguinea* - 20-V-58: beginning of ovipositions in *Rhamnus* leaves. The eggs are laid in the leaf parenchima (very few in the veins) - 3/4-VI-58: presence of the first neanids - 10-VI-58: presence of 2nd instar neanids - 10 ♀ ♀ are still active and continue laying eggs - phot. 4,845-4,846: ♀ ♀ without pigments on the elytra; 4,847-4,849: eggs; 4,850-4,851: neanids - Eggs and neanids in alcohol, adults dry.
- Typhl. 254 - PIEDMONT - Barone Canavese (TO) - 18-VII-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* Horváth): presence of adults and juvenile stages (above all 3rd-5th instar nymphs) - phot. 4,998-4,999: depigmented leaves; 5,000-5,000 bis: mature nymph - Some nymphs in alcohol - 12 nymphs reared (glass tube with a dampened cotton cap kept in the dark) - In 22-25 days 7 ♂ ♂ 5 ♀ ♀ reared (all in alcohol) showing in part *E. rhamnicola* characters and in part *E. inconstans* ones - N.B.: all adults are very decorated in red. (Undid the rearing).
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* Horváth): I collected 15 adults (5 ♂ ♂ 10 ♀ ♀, in alcohol) mostly poorly pigmented. Those with redder drawings have the characters typical of *E. inconstans* Ribaut. 6 nymphs reared in a glass tube with a dampened cotton cap in the dark. On 31-VII/3-VIII: 6 ♀ ♀ emerged, all well decorated with red and with the metanotum brown, having therefore the characters of *E. inconstans* (in alcohol). (Undid the rearing).
- Typhl. 260 - PIEDMONT - Stupinigi (TO) - 6-VIII-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* Horváth) - (as *Erythroneura inconstans* Ribaut): 1 ♂ 3 ♀ ♀ dry - The ♂ and 1 ♀ show *Erythroneura inconstans* characters! 1 ♀ those of *Erythroneura rhamnicola*, 1 ♀ intermediate characters. 30 nymphs (8 4th instars and 22 5th instars) - Climatic chamber: beginning of the experiment - Rearing A1, natural environment; max. temp. 18°C, RH 60-70%, h 9-21, min. temp. 12°C, RH 95-65%, h 21-9 - 8 4th instar nymphs, 11 5th instar nymphs - 8-VIII, h 21 check: 6 4th instar nymphs, 9 5th instar, 2 ♀ ♀ - 11-VIII, h 21 check: 8 5th instars, 11 adults (5 ♂ ♂ 6 ♀ ♀). Rearing A2; constant temperature 13°C, RH 65-95% - 14-VIII, 8 5th instar nymphs; 17-VIII h 21: 6 5th instar nymphs, 2 adults; 21-VIII, 8 adults (all ♂ ♂) have *E. inconstans* characters. Rearing B: natural environment. 11 5th instars, 8-VIII: 3 5th instars

and 8 adults; 11-VIII: 11 adults (4♂♂ 7♀♀) - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* or ?*inconstans*): 7 nymphs, some 4th instars and other 5th instars yellowish with a wide longitudinal red line on the back (from the vertex to the end of the abdomen) - phot. 6,320: nymph (2 mature nymphs in alcohol) - 5 nymphs (4 mature, 1 4th instar) are reared in the dark - 8-VIII-58: one ♂ emerged. 9-VIII-58: 3 adults emerged (1♂ 2♀♀) - The 4th instar nymph has moulted (4 nymphal exuviae in alcohol) - 15-VIII-58: the last adult emerged (♂) - 23-VIII-58: the 5 adults (3♂♂ 2♀♀) have clearly *E. inconstans* characters - 1♂ 1♀ dry; 2♂♂ 1♀ in alcohol (with the 2 nymphs).

Typhl. 263 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 10/15-VIII-58 - H.P. *Carpinus betulus* - (as *Erythroneura rhamnicola* Horváth): 3♂♂ 2♀♀ - phot. 6,368: ♂ poorly pigmented; 6,369: ♂ very pigmented - Both phot. ♂♂ show exactly *E. rhamnicola* characters: the distal half of the 2nd metathoracic tarsomere and the whole third tarsomere brown, metanotum and genital blades not infumate. The more pigmented ♂, as well as the ♀♀ (not phot.), have parts of the thorax reddish (above all the meso- and metathorax) like *E. inconstans*.

Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* + *E. inconstans*): presence of adults and nymphs only on *Rhamnus* (on nearby *Alnus*, *Acer*, *Quercus* there are other typhlocybid species, not these two ones) - I collected 22 adults (examined on 22-VIII!!) of which 6♂♂ 16♀♀ - In alcohol: 2♂♂ with *E. inconstans* characters, 2♂♂ with *E. rhamnicola* characters, 2♂♂ with intermediate characters (1 prepared in a glass slide); 6♀♀ with *E. inconstans* characters, 6♀♀ with *E. rhamnicola* characters, 4♀♀ with intermediate characters - I collected 39 3rd, 4th and 5th instar nymphs; reared: A) 13 3rd, 4th and 5th instars at room temperature; 22-VIII: 1 3rd instar, 5 5th instars, 1♂ 6♀♀ - 24-VIII: dead nymphs, 3♂♂ 6♀♀ - B) 13 4th and 5th instars (glass tube) at 10-13°C, RH 65-95% - 22-VIII: 5 5th instars, 3♂♂ 4♀♀ - 24-VIII: 3♂♂ 2♀♀ - C) 13 3rd, 4th and 5th instars (in a glass cage) at 10-15°C, RH 65-95% - 22-VIII: 1 4th instar, 9 5th instars, 1♂ 2♀♀ - 24-VIII: 1 4th instar, 8 5th instars, 1♂.

Typhl. 267 - PIEDMONT - Barone Canavese (TO) - 15-IX-58 (collecting), 18-IX-58 (preparation) - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* + *E. inconstans*): several individuals (among which many parasitized by *Aphelopus*) with a mixture of characters grouped as follows (There are juveniles of all instars): 4♂♂ healthy with all *E. inconstans* characters, 5♀♀ healthy with all *E. inconstans* characters; 1♂ healthy (poorly pigmented in red) with light genital blades but with completely brown tarsi; 1♂ healthy (well pigmented in red) with all light tarsi and the genital blades light too; 1♂ healthy with all characters of *E. rhamnicola*; 1♂ healthy well pigmented in yellow (but the red colour is pale) with all light tarsi; 1♂ parasitized with brown genital blades but with the tarsi of *E. rhamnicola*; 3♂♂ parasitized with genital blades and tarsi completely light; 4♀♀ parasitized showing *E. rhamnicola* characters - *E. rhamnicola* in a plastic tube - N.B.: all *E. rhamnicola* and *E. inconstans* individuals have the metanotum infumate.

Typhl. 270 - PIEDMONT - Barone Canavese (TO) - 5-X-58 - H.P. *Rhamnus frangula* - (as *Erythroneura rhamnicola* + *E. inconstans*): 8♂♂ with *E. inconstans* charac-

ters, 2♂♂ with few orange red pigments but with brown tarsi and genital blades; 2♂♂ (maybe parasitized by pipunculids) with decorations of the forebody and elytra like *E. inconstans*, but with the genital blades and all tarsi completely light; 4♀♀ (1 of which parasitized by *Aphelopus*) with *E. rhamnicola* characters (few orange red pigments); 10♀♀ with *E. inconstans* characters in a plastic tube.

Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - 12-IX-59 - Locality between Ruinaux and Fénille - m 1,120 - H.P. *Ulmus montana*, *Spiraea ulmaria* - (as *Erythroneura rhamnicola* + *E. inconstans*?): 3♂♂ (1 of which parasitized by *Aphelopus*), 1♀ dry - Near *Alnus incana*, *Corylus avellana*, *Acer pseudoplatanus*, etc.

Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - m 1,200 ~ - 15-IX-59 - (as *Erythroneura rhamnicola* or *E. inconstans*?) - H.P. *Ulmus montana* - (the plants with more depigmented leaves and therefore hosting a greater number of neanids and nymphs are those near the dusty road of Valsavarenche. The adults are scarce) - some newly emerged ♂♂♀♀ not prepared - Reared about a hundred nymphs - H.P. *Prunus cerasus*: 1♂2♀♀ dry (tarsi ferrugineous).

Typhl. 289 - LIGURIA - Colle di Melogno (SV) - 21-IX-59 - (Slope of Calizzano) - m 650-700 - H.P. *Quercus pedunculata* - (as *Erythroneura rhamnicola* or *E. inconstans*?): 2♂♂1♀ dry.

Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - (as *Erythroneura rhamnicola*): 38♂♂ of which 27♂♂ of the forma *inconstans*, 1♂ of the forma *inconstans* but with the 1st left tarsomere light, 2♂♂ of the forma *rhamnicola* typica, 2♂♂ of the forma *rhamnicola* but with the blades slightly infumate, 2♂♂ with black blades and white tarsi, 4♂♂ with light blades and tarsi - phot. 8,773-8,778: 3♂♂, *inconstans*, *rhamnicola* and the intermediate form - 12♂♂16♀♀ (forma *inconstans*), i.e. with brown tarsi and genital blades, in climatic chamber at h 18 of 11-II-61, with temperature of 25°C and RH of 60-65% - All leafhoppers dwell on *J. communis* needles; they do not stay instead on *Rubus fruticosus* leaves - In the same rearing, also some *Rhamnus frangula* twigs have been put together those of *Juniperus* and *Rubus* - 17-II-61: changed the water in the vases containing the cut vegetation; I examined some specimens under a microscope: cfr. with others reared on *Juniperus* on the windowsill (temperature -1/+10°C, RH...) they have lighter orange red decorations. The *Rhamnus* buds are remarkably swollen, and push out the first leaflets - 24-II-61: changed the water in the vases, I found 6♂♂ dead with the red drawings depigmented - 2-III: another check; presence of 4♂♂3♀♀ dead and depigmented - 10-III: the other 2♂♂ and many ♀♀ dead, all depigmented. The control specimens reared in natural room conditions are still well pigmented - 9 pale specimens of the climatic chamber and 18 pigmented control specimens in plastic tubes.

Typhl. 308 - VENETIA - Peschiera (VR) - 8-VI-61 - Hills (xerothermic areas) South of Peschiera (3-4 Km from the city), on the right of the road to Goito - H.P. *Rubus caesius* (hedge near oak wood, very depigmented leaves) - (as *Flammigeroidia ?rhamnicola*): 2♂♂2♀♀ dry - Specimens poorly pigmented with yellow.

- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - H.P. *Castanea sativa* - (as *Erythroneura rhamnicola* Horváth): 3♂♂ 8♀♀ dry - Very light specimens with decorations of head, pronotum and elytra of a pale lemon yellow colour, emerged mostly in the microenvironment of the Brabender chamber (T 17°C, RH 65%) where they remained from 11-VII to 15-VIII.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus* - (as *Erythroneura rhamnicola* Horváth forma *inconstans*): 1♂ not prepared.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - (as *Flammigeroidia rhamnicola* Horváth) - H.P. *Prunus spinosa*: 1♀ not prepared - H.P. *Quercus sessiliflora*: 1♀ not prepared.
- Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Flammigeroidia rhamnicola* Horváth): 2♂♂ dry.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Ostrya carpinifolia* - (as *Flammigeroidia ?rhamnicola*): 3♀♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - (as *Flammigeroidia rhamnicola* Horváth) - H.P. *Quercus pedunculata*: 1♀ not prepared - H.P. *Acer campestre*: 1♀ not prepared.
- Typhl. 360 - FRIULI-VENEZIA GIULIA - Monfalcone (GO) - (Salty marshes) - 2-X-61 - H.P. *Rhamnus frangula* - (as *Flammigeroidia rhamnicola* Horváth): 4♂♂ 4♀♀ dry: forma typica and forma *inconstans*.
- Typhl. 363 - FRIULI-VENEZIA GIULIA - Trieste - Gabrovizza - (Entrance of the Bear's cave) - 3-X-61 - H.P. *Rhus cotinus* (far from the cave, in karstic areas) - (as *Flammigeroidia rhamnicola* Horváth): 4♀♀ dry (with a clear limit in the drawing in correspondance with the clavo-chorial vein).
- Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Buxus sempervirens* - (as *Flammigeroidia rhamnicola* Horváth): 1♂ 7♀♀ dry.
- Typhl. 390 - SICILY - Palermo - (Villa Giulia) - 17-IV-62 - H.P. *Spiraea ?japonica* (with depigmented leaves) - (as *Flammigeroidia rhamnicola* Horváth): newly emerged adults + 4♂♂ 6♀♀ (forma typica) dry.
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Quercus pedunculata* (mixed with *Rhamnus frangula*) - (as *Flammigeroidia rhamnicola* Horváth): 4♂♂ 1♀ not prepared (3♂♂ forma typica, 1♂ forma *inconstans*).
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Calluna vulgaris* - (as *Flammigeroidia rhamnicola* Horváth): 2♂♂ forma typica + 1♂ forma *inconstans* (coming from nearby *Rhamnus*), ♀♀ not prepared.
- Typhl. 421 - LIGURIA - San Romolo (IM) - (Sanremo) - (Mount Bignone) - m 800 - 14-IX-62 - H.P. *Fagus sylvatica* (low bushy plants, windy day) - (as *Flammigeroidia rhamnicola* Horváth): 1♀ not prepared.

- Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa* - (as *Flammigeroidia rhamnicola* Horváth forma *inconstans* Ribaut): 2♂♂ 4♀♀ not prepared (near *Rhamnus frangula* plants).
- Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 - H.P. *Carpinus betulus* (bushes) - (as *Flammigeroidia rhamnicola* Horváth): 2♀♀ not prepared.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Rhamnus frangula* - (as *Flammigeroidia rhamnicola* Horváth): 2♀♀ dry.
- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Torinese) - m 600 - 30-VIII-64 - H.P. *Quercus pedunculata* and *Q. pubescens* - (as *Flammigeroidia rhamnicola* Horváth): 1♂ dry.
- Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,300 - (Locality near Njeguši. On the road Kotor-Cetinje) - 7-IX-64 - H.P. *Carpinus betulus* (understorey bush) - (as *Flammigeroidia ?rhamnicola* Horváth): 2♂♂ dry.
- Typhl. 566 - JUGOSLAVIJA - Kutina (Hrvatska, 70 Km from Zagreb) - Locality at 12-15 Km from Kutina at the height of m 250 ~. Along villages and country roads. Very humid environment - 1-IX-66 - H.P. *Rhamnus* sp. (*catharticus*) - (as *Flammigeroidia ?rhamnicola* Horváth): ♂♂ ♀♀ dry.
- Typhl. 615 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - (Storm) - 9-VI-II-81 - H.P. *Alnus glutinosa* - (*rhamnicola* Horváth): 1♀ dry - phot. (...) Wild 20x, length mm 2.9.
- Typhl. 618 - PIEDMONT - Predosa (AL) - 16-VIII-81 - H.P. *Quercus cerris* (suckers grown in coppice with *Fraxinus* near *Prunus spinosa*, etc.): 2♀♀ not prepared.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Acer campestre* (near a *Carpinus betulus* hedge and a wood of *Ulmus*, *Ailanthus glandulosa*, *Quercus*, etc.): 1♂ 1♀ dry.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Rhamnus frangula*: 5♂♂ 7♀♀ dry (2♂♂ dryinidized), ♂ phot. (...) - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 1♂ 6♀♀ dry.
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Prunus pissardi* (house of the Metropolitan Police): 3♂♂ 1♀ dry - H.P. *Prunus cerasus* (procumbent, ornamental): 6♂♂ 1♀ not prepared.
- Typhl. 731 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age near the greenhouses): 2♂♂ 2♀♀ dry.
- Typhl. 796 - SICILY - m Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - H.P. *Betula aetnensis* (sparse specimens, along gullies in the pinewood): 1♂ dry.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 7♂♂ 8♀♀ dry.
- Typhl. 886 - PIEDMONT - Predosa (AL) - 1-XI-86 - H.P. *Rosa canina* (poorly depigmented leaves - no nymphs and exuviae of *Macrosiphum rosae* on the leaves): 1♀ not prepared.
- Typhl. 912 - PORTUGAL - Amarante (Oporto) - (Park Boega Hotel) - 11-VI-88 - H.P. *Vitis labrusca* (on *Parietaria*, *Rubus*, and *Sambucus*): 2♀♀ dry on *Rubus*.

N.B.: The experiments in climatic chambers were aimed at proving that the chromatic changes were due to the climate, and could lead to wrong classifications (editor's note)

ZYGINA tiliae (Fallén, 1806)

- Typhl. 6 - PIEDMONT - Caluso (TO) - 16-X-55 - H.P. *Crataegus monogyna* - (as *Erythroneura tiliae*): ♂ ♂ ♀ ♀ dry - Adults of both species (also *E. flammigera*, editor's note) but above all of the second species; these species are very abundant on a hawthorn hedge along the Canal of Caluso at the level of Picco Isidoro's vineyard.
- Typhl. 18 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Alnus incana* (along a ditch with water) - (as *Erythroneura*): 1 ♀ dry.
- Typhl. 28 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 20-XI-55 - H.P. *Corylus avellana* - (as *Erythroneura* sp.): 2♂♂ 3 ♀ ♀ (only 1 ♀ has some red pigments on the elytra. In all other individuals the pigments are not differentiated. The 2♂♂ have brown tarsi. ♂ ♂ ♀ ♀ in alcohol.
- Typhl. 37 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 30-IX-56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ 1 ♀ in alcohol, 2 ♀ ♀ dry.
- Typhl. 44 - PIEDMONT - Caluso (TO) - (Dry ditch, Passera Marcello's ditch) - 6-X-56 - H.P. *Spiraea ulmaria* - (as *Erythroneura*): 1♂ 1 ♀ in alcohol, 2 ♀ ♀ dry.
- Typhl. 45 - PIEDMONT - Caluso (TO) - (Canal: Braia's and Bianco's properties) - 6-X-56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ 1 ♀ in alcohol, 2♂♂ dry (one of the 2♂♂ parasitized by a dryinid, has only the last two tarsomeres black).
- Typhl. 46 - PIEDMONT - Caluso (TO) - (Vidano's vineyard) - 6-X-56 - H.P. *Vitis vinifera* - (as *Erythroneura*): 1 ♀ dry.
- Typhl. 47 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 14-X-56 - H.P. *Quercus* sp. - (as *Erythroneura*): 1♂ 1 ♀ dry.
- Typhl. 51 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 14-X-56 - H.P. *Prunus persica* - (as *Erythroneura*): 1 ♀ dry.
- Typhl. 61 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 20-X-56 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 7♂♂ (2 dry, 5 in alcohol) 4 ♀ ♀ (1 dry, 3 in alcohol). (Cfr. Typhl. 80).
- Typhl. 64 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 2♂♂ 1 ♀ dry - (Cfr. Typhl. 47).
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* (as *Erythroneura*): 4♂♂ dry.
- Typhl. 70 - PIEDMONT - Caluso (TO) - (Monti's apple grove) - 10-XI-56 - H.P. privet hedge (Picco's hedge) - (as *Erythroneura*): 2 ♀ ♀ dry.
- Typhl. 71 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto and Maresciallo Garino's properties) - 10-XI-56 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 1♂ 3 ♀ ♀ dry - (Cfr. Typhl. 64).
- Typhl. 74 - PIEDMONT - Caselette (TO) - (Oak wood) - 27-II-57 - H.P. *Juniperus communis* (as *Erythroneura*): 1♂ 2 ♀ ♀ dry.

- Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - H.P. *Pinus sylvestris* - (as *Erythroneura*): 1♂ 5♀ ♀ in alcohol.
- Typhl. 79 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field) - 30-III-57 - H.P. *Rubus fruticosus* - (as *Erythroneura*): ? 2♀ ♀ dry. Without red pigments and with poorly obvious infumate areas.
- Typhl. 80 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - 7-IV-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2♂♂ (1 dry, 1 in alcohol), 16♀ ♀ (3 dry, 13 in alcohol) - N.B.: some individuals could be *E. inconstans* - Several *E. tiliae* adults were observed also on *Alnus* on 14 and 20-IV-57. In Typhl. 83 it is ascertained (as it is supposed in Typhl. 61) that *E. inconstans* Ribaut is mixed with *E. tiliae* - N.B.: on the lower page of alder leaflets there are some newly hatched neanids of Typhlocybidae.
- Typhl. 82 - PIEDMONT - Caluso (TO) - (Picco Giordano's orchard) - 14-IV-57 - H.P. apple tree (horizontal cordons) - (as *Erythroneura*): some adults.
- Typhl. 83 - PIEDMONT - Caluso (TO) - (Dry ditch - Salvetti Pietro's property) - 21-IV-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): presence of a great number of adults (mostly ♀ ♀) mixed with those of *E. inconstans*. 20 adults (5♂♂ 15♀ ♀) (maybe some of them are *E. inconstans*) reared on *Alnus glutinosa* - 10 adults (1♂ 9♀ ♀) in alcohol - phot. 3,811: 1♂ - 3,812: 1♀ dry - (cfr. Typhl. 61 and Typhl. 80).
- Typhl. 85 - PIEDMONT - Caluso (TO) - (Hedge of Podio Guglielmo's field and hedge of Tululena's field; hedge of the Canal) - 21-IV-57 - H.P. *Rubus fruticosus* - (as *Erythroneura*). The "present" host plant is bramble, while in autumn it was grapevine. The different adults are reared on bramble, but it is difficult that the ♀ ♀ will lay eggs, because their host plant should be *Salix* (Ribaut). I find very few adults of other typhlocybids on bramble (*Empoasca flavescens*: 2♀ ♀; *E. flammigera*: 1♀; *E. tiliae*: 1♀).
- Typhl. 100 - PIEDMONT - Rivoli (TO) - (Viberti's reserve?) - 24-V-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 3♀ ♀ (2 dry).
- Typhl. 111 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti Pietro's property) - Aiè region - 16-VI-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 1♂ 1♀ dry.
- Typhl. 120 - PIEDMONT - Caluso (TO) - (road of San Giorgio) - 27-VI-57 - H.P. *Rhamnus frangula* - (as *Erythroneura*): 1♂ dry.
- Typhl. 121 - PIEDMONT - Caluso (TO) - (Canal) - 30-VI-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): adults collected: 3♂♂ (1 in alcohol, 2 dry) - Reared adults: 1♂ 1♀ in alcohol (in alcohol 5th instar nymphs and exuviae together with others of *E. alneti*) - phot. 4,106: 5th instar nymph.
- Typhl. 136 - PIEDMONT - Lanzo (TO) - (After the bridge, along the left of the road of Cafasse) - 10-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 22 individuals of which 6♂♂ (1 dry, 5 in alcohol), 16♀ ♀ (4 dry, 12 in alcohol) - Many individuals are strongly coloured with red and hardly show the infumate areas.
- Typhl. 143 - PIEDMONT - Caluso (TO) - (Dry ditch, Salvetti's alder grove) - 18-VII-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2♂♂ in alcohol, 11♀ ♀ (2 dry, 9 in alcohol) - Very well red pigmented individuals; they have a close affinity with *E. ordinaria*.
- Typhl. 186 - PIEDMONT - Barone Canavese (TO) - (Farm Viola) - 14-IX-57 - (as *Ery-*

- thronaura*) - H.P. *Alnus glutinosa*: 7♂♂ (4 parasitized), 5♀♀ not prepared - H.P. *Quercus pedunculata*: ! 3♂♂ 2♀♀ not prepared.
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - (as *Erythroneura*) - H.P. *Rubus fruticosus*: 1♂ not prepared - H.P. *Carpinus betulus*: 2♂♂ 1♀ not prepared.
- Typhl. 193 - PIEDMONT - Barone Canavese (TO) - (Border with Caluso) - 21-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): many ♂♂ ♀♀ - !! 1♂ with completely light tarsi (not prepared).
- Typhl. 194 - PIEDMONT - Caluso (TO) - (Tululena's field and hedge) - 21-IX-57 - H.P. grapevine (*Vitis labrusca*) - (as *Erythroneura*): 1♂ 1♀ not prepared.
- Typhl. 201 - PIEDMONT - Caluso (TO) - (Hedge of Salvetti Pietro's field in the region Aiè, along the dry ditch) - 28-IX-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2♂♂ 2♀♀ not prepared.
- Typhl. 208 - PIEDMONT - Caluso (TO) - (Dry ditch) - (Monti Not's property) - 6-X-57 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 3♂♂ 2♀♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - (as *Erythroneura*) - H.P. *Alnus incana*: 8♂♂ (3 dry), 8♀♀ (3 dry) - H.P. *Populus nigra*: 1♂ 1♀ not prepared.
- Typhl. 220 - PIEDMONT - Caluso (TO) - 12-X-57 - H.P. *Vitis vinifera* (Vidano's vineyard) - (as *Erythroneura*): 1♀ not prepared.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Strada Valpiana 31, Istituto Difesa del Fanciullo) - 14-X-57 - H.P. *Sophora japonica* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 230 - PIEDMONT - Caluso (TO) - (Tululena's field) - 2-II-58 - H.P. *Rubus fruticosus* - [the individuals of the different species (*E. rhamni*, *E. tiliae*, *E. tithide*, *Empoasca pteridis*, editor's note) were preserved until 26-II-58 in a glass tube containing green bramble leaves. At the moment of their examination they were still all alive] - (as *Erythroneura*): 1♀ not prepared.
- Typhl. 232 - PIEDMONT - Caluso (TO) - 5-IV-58 - H.P. *Lonicera* sp. - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 233 - PIEDMONT - Caluso (TO) - (Tululena's field) - 10-V-58 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 1♂ not prepared.
- Typhl. 246 - PIEDMONT - Bussoleno (TO) - (Military road) - 12-VI-58 - H.P. *Alnus incana* (near the stone grinder) - (as *Erythroneura*): 2♀♀ not prepared.
- Typhl. 257 - PIEDMONT - Barone Canavese (TO) - 28-VII-58 - H.P. *Alnus glutinosa* - (as *Erythroneura*): 2♀♀.
- Typhl. 264 - PIEDMONT - Caluso (TO) - 16-VIII-58 - H.P. *Alnus glutinosa* - (as *Erythroneura*) ?or *ordinaria*: 1♂ 1♀ not prepared.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - (as *Erythroneura*): 10♂♂ of which 5 of the forma *peruncta* Ribaut, 6♀♀ all of the forma *typica* in a plastic tube - + 2♂♂ of the forma *typica*, phot. 8,780-8,781 dry.
- Typhl. 353 - FRIULI- VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa* - (as *Flammigeroidia*): 1♂ 2♀♀ dry.

- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes, 6-7 m high, in continuation with the arid heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Quercus pedunculata* - (as *Flammigeroidia*): 1 ♀ not prepared.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Castanea vesca* - (as *Flammigeroidia*): 2♂♂ not prepared.
- Typhl. 378 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 1-XI-61 - H.P. *Buxus sempervirens* - (as *Flammigeroidia*): 2♂♂ 3♀♀ dry (2♂♂ 3♀♀ to Servadei, April 1971).
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - H.P. *Juniperus communis* - (as *Flammigeroidia*): 1 ♀ not prepared.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Corylus avellana* - (as *Flammigeroidia*): 1♂ 1♀ not prepared.
- Typhl. 457 - PIEDMONT - Cesana (TO) - (road to Sestriere) - m 1,500 - 30-V-63 - H.P. polyphyte meadow (windy day), *Centaurea*, *Angelica*, etc. - (as *Flammigeroidia*): ? 1♂ 1♀ dry - Maybe coming from *Alnus viridis* or *A. incana*.
- Typhl. 472 - PIEDMONT - Barone Canavese (TO) - 8-IX-63 - H.P. *Alnus glutinosa* - (as *Flammigeroidia*): 4♂♂ 9♀♀ not prepared (many specimens parasitized by dryinids).
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Crataegus monogyna* - (as *Flammigeroidia*): 1 ♀ dry (presence of *Alnus glutinosa*).
- Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Sorbus aria*, with *Quercus pubescens*, *Corylus* and *Alnus cordata* - (as *Flammigeroidia*): 1♂ dry.
- Typhl. 578 - LATIUM - Pontian Islands (LT) - (Ponza village) - 1965-1967 - Determinations for prof. Carlo Consiglio; letter reference no. 1,102 of 25-VI-74 - Isle Zannone - 6-I-67: 1 ♀.
- Typhl. 615 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 9-VIII-81 - Storm! - H.P. *Alnus glutinosa*: ?exuvia of a 5th instar nymph phot. Wild 20x.
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* (Bed of the stream where *Salix* and *Populus* thrive, but there are no *Quercus*): 6♂♂ 11♀♀ dry + many juveniles of various instars; nymph (length mm 2.2), ♂ (length mm 2.8), ♀ (length mm 2.9) - phot. (...) Wild + 5th instar nymph sulphur yellow mm 2.5 - 16x - 1 ♀ emerged on 19-VIII; it has the metathorax and the end of the abdomen black, dry - Another 5th instar nymph; 1♂ emerged on 20-VIII; on 28-VIII-81 phot. (...) ♂ very pigmented, length mm 3.0, dry.
- Typhl. 620 - PIEDMONT - Silvano d'Orba (AL) - (road to Ovada) - 16-VIII-81 - H.P. *Carpinus betulus* (hedge along the road): 1 ♀ not prepared.
- Typhl. 621 - PIEDMONT - Capriata d'Orba (AL) - (Rock in front of the cemetery) - 16-VIII-81 - H.P. *Alnus glutinosa* (windy day): 3♂♂ 3♀♀ dry.
- Typhl. 631 - FINLAND - Tvärminne - Zoological Station - (4th Auchenorrhyncha Meeting) - 9-12 September 1981 - H.P. *Alnus glutinosa* (along the seaside): 2♂♂ 3♀♀ dry.
- Typhl. 646 - LIGURIA - Sanremo (IM) - (Stream S. Romolo) - m 200 - Farm Mucci - Isola Superiore - 23-VIII-82 - H.P. *Alnus glutinosa*: 1♂ 1♀ dry.

- Typhl. 647 - LIGURIA - Bocca di Magra (SP) - 25-VIII-82 - H.P. *Alnus glutinosa*: 4♂♂ 1♀ dry.
- Typhl. 704 - LIGURIA - Chiusavecchia (IM) - 19-VII-84 - H.P. *Ostrya carpinifolia* (before the tunnel, coming from Imperia): ?! 1♀ dry + 1 5th instar nymph: reared ? 1♀ emerged not prepared - Depigmented leaves, like the *Corylus* and *Alnus* by 1st generation juveniles - Presence of exuviae of ?*Typhlocyba* sp. ?*quercus*.
- Typhl. 731 - PIEDMONT - Chieri (TO) - (Tetti Grondana) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age near the greenhouses): 1♂ 1♀ dry.
- Typhl. 857 - PIEDMONT - Ceva (CN) - 20-IX-86 - H.P. *Alnus glutinosa* (along the Tanaro): 6♂♂ 6♀♀ not prepared.

ZYGINA tithide Ferrari, 1882

- Typhl. 1 - PIEDMONT - Susa (TO) - (road to Cesana) - 13-X-55 - H.P. *Populus alba* - (as *Erythroneura*): presence of a fair number of adults and 5th instar nymphs on the lower leaf pages. Of 30 adults collected 16 are ♂♂ and 14 ♀♀. Not all individuals are well pigmented. Some have the final coloration: a transverse stripe of a red fleshy colour on the frons; 3 spots on the vertex and two on the scutellum (near the anterior angles) of a wine red colour; 4 longitudinal stripes joint together sub anteriorly and at the base of a red fleshy colour. Characteristic wing spots fleshy red too. In the younger individuals there is only a red spot on the vertex (the anterior central one) and the two ones of the scutellum. Other individuals have the 3 spots of the vertex and the 2 of the scutellum. The last to be pigmented are the wings, in which the areas involved appear at first yellow then orange and finally fleshy red. 16 individuals dry (11♂♂ 5♀♀); 14 individuals in alcohol (5♂♂ 9♀♀). This species is macrocerous in the juvenile stages, the 5th instar nymphs still on the leaves have antennae much longer than the body: they are white in the proximal 2/5 and black in the medium 2/5 and again white in the distal 1/5. Head and thorax are very compressed dorso-ventrally. The integument is rich of tiny hairs. The emergence is very rapid: in 2-3 minutes the insect abandons the nymphal exuvia and in 10-12 minutes more it spreads the wings. The appearance of the first red pigments (the 2 spots of the scutellum) occurs (in the laboratory) after 6-7 days; after further 2 days the central spot on the vertex appears, then the two lateral ones and finally, after 7-8 more days, the elytral pigmentation appears slowly.
- Typhl. 2 - PIEDMONT - Susa (TO) - (road to Cesana) - 13-X-55 - H.P. *Populus alba*: adults and 5th instar nymphs of *Erythroneura tithide* Ferrari are many on the leaves (cfr. Typhl. 1). Ribaut mentions this species in France and Europe on willows (since July) without being common anywhere.
- Typhl. 20 - PIEDMONT - Condove (TO) - (Susa Valley) - 17-X-55 - H.P. *Populus alba* (along a ditch with water) - (as *Erythroneura*): 1♀ dry (with the wings not yet pigmented) - (Cfr. Typhl. 1-21).
- Typhl. 21 - (Cfr. Typhl. 1) - PIEDMONT - Susa (TO) - (road to Cesana, just outside the town) - 17-X-55 - H.P. *Populus alba* - (as *Erythroneura*): of 46 adults collected, 19 are ♂♂ and 27 ♀♀ - 1♂ 2♀♀ are parasitized by dryinids (reared); 10♂♂ 10♀♀ in alcohol with about twenty 5th instar nymphs - Of the 46 individuals only about

ten show the spots well pigmented in red. The others have faint spots and pale wing patches; in some of them, the spots are not yet differentiated.

- Typhl. 30 - (Cfr. Typhl. 1 and 21) - PIEDMONT - Susa (TO) - (road to Cesana) - 8-VIII-56 - H.P. *Populus alba* - (as *Erythroneura*): collected adults, neanids and nymphs of all instars - I made several observations and took photographs (phot. 3,406-3,408). In alcohol: adults, all (♂ ♂ and ♀ ♀ to count) - Neanids and 5th instar nymphs in a separate tube - Exuviae of neanids and nymphs in another tube.
- Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura*): 1 ♂ dry (coming certainly from nearby *Populus tremula* plants) - (Cfr. Typhl. 62).
- Typhl. 74 - PIEDMONT - Caselette (TO) - (Oak wood) - 27-II-57 - H.P. *Juniperus communis* (as *Erythroneura*): 2 ♂ ♂ 4 ♀ ♀ dry. N.B.: the hind coxae of all 6 individuals are of a lemon yellow colour and not black as Ribaut writes.
- Typhl. 77 - PIEDMONT - Ternavasso (TO) - 27-III-57 - (as *Erythroneura*) - H.P. *Juniperus communis*: 3 ♂ ♂ in alcohol - H.P. *Pinus sylvestris*: 1 ♂ 1 ♀ in alcohol.
- Typhl. 88 - PIEDMONT - Susa (TO) - (road of Cesana) - 9-V-57 - H.P. *Populus alba* - (as *Erythroneura*): 29 individuals var *nudata* Ribaut of which 6 ♂ ♂ 23 ♀ ♀. All with only the 3 red spots of the vertex and the 2 ones of the scutum. Pronotum and elytra without red pigments (some yellowish pigments are hinted in the elytra above all in ♂ ♂). Such adults should have overwintered; presently there are no juveniles. I reared all 29 adults, except 1 ♂ 1 ♀ (phot. 3,876-3,877) dry.
- Typhl. 104 - PIEDMONT - Susa (TO) - (road of Cesana) - 31-V-57 - H.P. *Populus tremula* - (as *Erythroneura*): 6 ♂ ♂ 6 ♀ ♀ not prepared. Specimens poorly or not at all pigmented. I do not see any juveniles - (Cfr. Typhl. 88).
- Typhl. 158 - PIEDMONT - Susa (TO) - (road to Ulzio) - 6-VIII-57 - H.P. *Populus alba* - (as *Erythroneura*): 1 ♂ 1 ♀ dry var *nudior* Cerutti; 4 ♂ ♂ 2 ♀ ♀ dry var *unipunctata* Cerutti.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Salix alba*: 1 ♂ forma typica dry.
- Typhl. 196 - PIEDMONT - Stupinigi (TO) - (road on the left of the palace, immediately after the church) - 24-IX-57 - (as *Erythroneura*) - H.P. *Salix alba* (big topped trees): 2 ♀ ♀ not prepared - H.P. *Populus alba* (big topped trees in rows): 1 ♂ 1 ♀ dry forma typica; 1 ♂ 1 ♀ dry var *nudata* Ribaut; 1 ♂ 1 ♀ dry var *nudior* Cerutti; 2 ♂ ♂ dry var *unipunctata* Cerutti; 2 ♂ ♂ 1 ♀ dry var *decolorata*. 5 ♂ ♂ 5 ♀ ♀ + some ♂ ♂ ♀ ♀ of intermediate forms in alcohol with 2 nymphs. The most decolorated var seems simply made of young individuals.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - (as *Erythroneura*) - H.P. *Alnus incana*: 1 ♂ 1 ♀ dry. N.B.: the ♂ has the right tegmen with the characteristical red pigments and the left one completely white - H.P. *Populus nigra*: 2 ♂ ♂ 2 ♀ ♀ not prepared - H.P. *Salix purpurea*: 7 ♂ ♂ 5 ♀ ♀ not prepared (all of the forma typica).
- Typhl. 212 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Small hills in the

- middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura*): 1 ♀ not prepared.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Populus alba* - (as *Erythroneura*): 2 ♂ ♂ 3 ♀ ♀ not prepared.
- Typhl. 230 - PIEDMONT - Caluso (TO) - (Tululena's field) - 2-II-58 - H.P. *Rubus fruticosus* - [the individuals of the different species (*E. rhamni*, *E. tiliae*, *E. tithide*, *Empoasca pteridis*, editor's note) were preserved until 26-II-58 in a glass tube containing green bramble leaves. At the moment of their examination they were still all alive] - (as *Erythroneura*): 1 ♂ not prepared forma typica.
- Typhl. 231 - PIEDMONT - Pino Torinese (TO) - 29-III-58 - (as *Erythroneura*) - H.P. *Picea excelsa*, *Pinus sylvestris*: 2 ♂ ♂ forma typica not prepared - H.P. *Ligustrum ovalifolium*: 2 ♂ ♂ forma typica not prepared - H.P. *Laurus nobilis*: 1 ♀ not prepared.
- Typhl. 252 - PIEDMONT - Bussoleno (TO) - (Military road) - 15-VII-58 - H.P. *Populus alba* - (as *Erythroneura*): 1 ♂ 4 ♀ ♀ (poorly pigmented adults) not prepared.
- Typhl. 274 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - (Dora Riparia Valley) - 22-X-58 - (as *Erythroneura*) - H.P. *Salix alba*: 9 ♂ ♂ 7 ♀ ♀ in a plastic tube (forma typica, var *nudata*, var *medior*, var *unipunctata*, var *decolorata*) - H.P. *Populus alba*: 12 ♂ ♂ 1 ♀ forma typica in a plastic tube - H.P. *Quercus sessiliflora*: 2 ♂ ♂ 5 ♀ ♀ not prepared - San Giorio (TO) - (Xerothermic oases) - H.P. *Quercus sessiliflora*: 2 ♀ ♀ not prepared.
- Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 2 ♂ ♂ not prepared.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis*: 2 ♂ ♂ dry.
- Typhl. 341 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - 27-VIII-61 - H.P. *Salix* sp.: 4 ♂ ♂ 3 ♀ ♀ not prepared - H.P. *Populus alba*: 12 ♂ ♂ 17 ♀ ♀ not prepared.
- Typhl. 358 - FRIULI- VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Populus alba*: 1 ♂ dry.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora*: 2 ♂ ♂ not prepared.
- Typhl. 380 - PIEDMONT - Moncalieri (TO) - (Park of a villa in the high part of the city) - 28-I-62 - H.P. *Buxus sempervirens*: 1 ♂ not prepared.
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - H.P. *Juniperus communis*: 1 ♂ not prepared - H.P. *Calluna vulgaris*: 1 ♂ not prepared - H.P. *Rubus fruticosus*: 2 ♀ ♀ not prepared.
- Typhl. 581 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 18-VI-78 - H.P. *Populus alba*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 585 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 30-VII-78 - H.P. *Populus alba*: ♂ ♂ ♀ ♀ not prepared.
- Typhl. 588 - PIEDMONT - Susa (TO) - (S. Giuseppe di Mompantero) - 10-IX-78 - H.P. *Populus alba*: 6 ♂ ♂ 7 ♀ ♀ not prepared.
- Typhl. 604 - PIEDMONT - Foresto - Susa (TO) - 22-II-81 - H.P. *Juniperus communis*: 4 ♂ ♂ 5 ♀ ♀ - H.P. *Pinus sylvestris*: 17 ♂ ♂ 9 ♀ ♀.

- Typhl. 619 - PIEDMONT - Capriata d'Orba (AL) - (Near the stream) - 16-VIII-81 - H.P. *Populus alba* (small plants near the excavation and the lake): 2♂♂ 2♀♀ dry + 3♂♂ 11♀♀ and juveniles not prepared.
- Typhl. 670 - LOMBARDY - (as Typhl. 672) - Rovescala (PV) - February-March 1984 - Leg. Prof. Domenichini - II / III-84 - 7-III-84 - H.P. bramble: 1♀ - 14-III-84 - H.P. bramble: 1♀.
- Typhl. 672 - LOMBARDY - (Idem like Typhl. 670 and 670 bis!) - Piacenza and surroundings (PV) - January-March 1984 - (Leg. Prof. Domenichini) - Rovescala (PV) - 14-III-64 - H.P. bramble: 2♀♀ not prepared.
- Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1♀ dry.
- Typhl. 886 - PIEDMONT - Predosa (AL) - 1-XI-86 - H.P. *Rosa canina* (poorly depigmented leaves - no nymphs and exuviae of *Macrosiphum rosae* on leaves): 1♂ not prepared.

BOXES 50-51

GENUS *ARBORIDIA* Zachvatkin, 1946*ARBORIDIA brevis* (Ribaut, 1931)

- Typhl. 914 - ABRUZZO - Prati di Tivo (TE) - Gran Sasso - 17-VI-88 - (Preparation by dr Demichelis) - H.P. ?: ? 1♀.

ARBORIDIA dalmatina (Wagner, 1962)

- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - (Cfr. Typhl. 522) - H.P. grapevine - (as *A. dalmatina* Novak & Wagner, 1962 = *A. adanae vitisuga* Dlabola, 1963): 17♂♂ 11♀♀ - 3♂♂ 2♀♀ to Papevic; 14♂♂ 9♀♀ kept (prope *A. parvula* Boheman) "very abundant on grapevine (in the surroundings of Titograd) on which it causes serious damage during the good season" - (Cfr. *A. dalmatina* Novak & Wagner, 1962) - N.B.: *A. dalmatina* Novak & Wagner, 1962 = *A. adanae vitisuga* Dlabola, 1963: new synonym *Zygina hussaini* Ghauri, 1963 = *Arboridia hussaini* Ghauri = *A. kermanshah* Dlabola, 1963 - **Drawings and sketches** of genital blades, upper pygofer appendages etc.
- Typhl. 522 - JUGOSLAVIJA - (Split) - Experimental field of the Institut Zajadranske Kulture - 2-IX-64 - H.P. *Vitis vinifera*: 5♂♂ 4♀♀ (2♂♂ 1♀ in alcohol) (= *A. adanae vitisuga* Dlabola) - phot. 12,983: ♂, length mm 2.9; 12,984: ♀, length mm 3.1; 12,984 bis: 5th instar nymph, length mm 2.5 - H.P. *Cynodon dactylon* (in *Vitis* rows): 1♂ 3♀♀ dry - (Cfr. Typhl. 485).
- Typhl. 528 ter - JUGOSLAVIJA - Montenegro - Titograd (vineyard of the Institute of Agromomic Research) - 7-IX-64 - H.P. *Vitis vinifera*: 12♂♂ 10♀♀ dry (+ juveniles) - Very depigmented leaves - 1♂ 1♀ to Wagner, 5-X-64.
- Typhl. 862 - FRIULI- VENEZIA GIULIA - Prepotto - Hamlet of Cialbe (UD) - 25-IX-86 - H.P. *Vitis* (well grown) ?Pinot bianco with BN or FD? - *Empoasca vitis*? *Zygina rhamni*? No *Arboridia dalmatina*.

ARBORIDIA erecta (Ribaut, 1931)

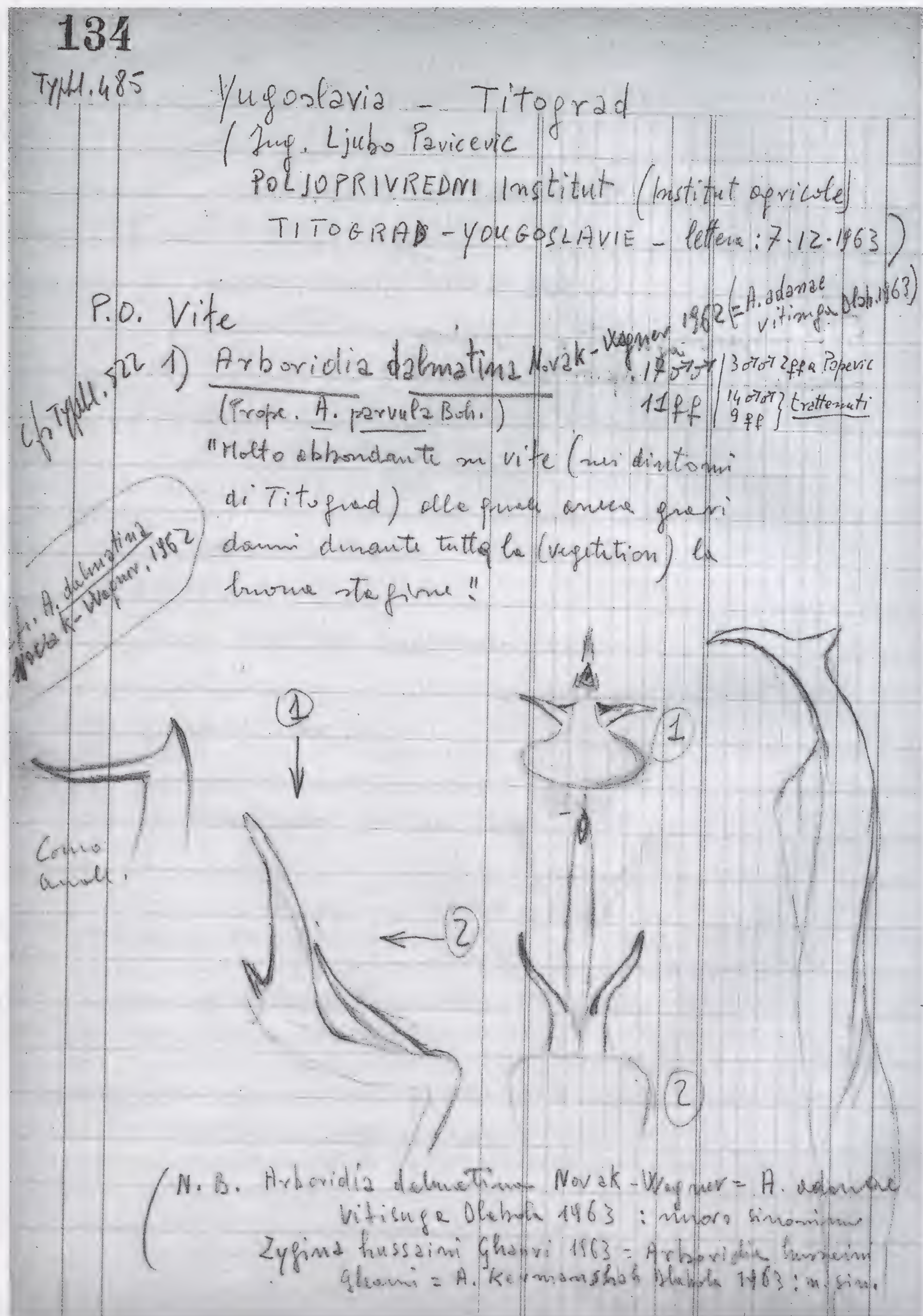
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Erythroneura*) - (Plant present in the coppice wood and in the hedges as isolated shrubs), characteristically depigmented leaves: 1 ♂ dry - 3 ♂ ♂ 3 ♀ ♀ (not classified, but certainly belonging to these two species: *Erythroneura ribauti* Ossiannilsson = *parvula* Boheman sec. Ribaut, editor's note) in alcohol.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings Farm Viola) - 21-IX-57 - H.P. *Acer campestre* - (as *Erythroneura*): 1 ♂ 1 ♀ dry.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Acer campestre* - (as *Erythroneura*): 1 ♂ 1 ♀ dry.
- Typhl. 466 - FRANCE - Breil sur Roya - (Maritime Alps) - 16-VIII-63 - H.P. *Rhus cotinus*: 2 ♂ ♂ 6 ♀ ♀ dry - Presence of many adults on well depigmented leaves of the branches nearer to the ground or however of the thicker part of the bushes (phot. 11,764: ♂, length mm 3.3!; 11,765: ♀, length mm 3.0!).
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris*: 1 ♂ dry.
- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.): 3 ♂ ♂ dry, 2 ♀ ♀ not prepared.

ARBORIDIA kakogawana (Matsumura, 1932)

- Typhl. 666 - CINA - Shanghai - (Farm rearing chicken: 35 Km from Shanghai) - 21-IX-83 - H.P. *Vitis* (prope *V. labrusca*): 8 ♂ ♂ 8 ♀ ♀ dry - 10 ♂ ♂ 2 ♀ ♀ in a plastic tube - 9 ♂ ♂ 9 ♀ ♀ in alcohol - Very depigmented leaves, with 15-20 juveniles and adults per leaf. Phot. in the field: depigmentations and juveniles. Phot. in the laboratory: protrait of ♂, ♀ and 5th instar nymph. See Dworakowska, 1979, page 670.

ARBORIDIA parvula (Boheman, 1845)

- Typhl. 23 - PIEDMONT - Meana (TO) - (road of Colle delle Finestre) - m 1,000 - 17-X-55 - H.P. *Acer pseudoplatanus* - (as *Erythroneura*): ? 1 ♀ dry.
- Typhl. 39 - PIEDMONT - Stupinigi (TO) - (Woods along the road to Pinerolo) - 3-X-56 - H.P. *Carpinus betulus* - (as *Erythroneura (disjuncta) parvula* Ribaut): 2 ♂ ♂ dry, 2 ♂ ♂ 1 ♀ in alcohol - Confirm the determination with preparations.
- Typhl. 87 - PIEDMONT - Caluso (TO) - (Hedge of Tululena's field, along the Canal) - 5-V-57 - H.P. *Lamium maculatum*, *Stachys sylvatica* - (as *Erythroneura*): 1 ♀ dry.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Erythroneura = disjuncta* Ribaut) - (Plant present in the coppice wood and hedges as isolated shrubs), characteristically depigmented leaves: 5 ♂ ♂ (2 dry, 3 in alcohol), 4 ♀ ♀ (2 dry, 2 in alcohol).
- Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - [as *Erythroneura (= disjuncta* Ribaut)] - H.P. *Corylus avellana*: 6 ♂ ♂ (2 dry, 4 in alcohol) + 5 ♀ ♀ of the *parvula* group in alcohol - H.P. *Rubus fruticosus*: 4 ♂ ♂ (1 dry, 3 in alcohol), 6 ♀ ♀ (1 dry, 5 in alcohol).

Fig. 19 - A notebook page with the sketches of the genitalia of *Arboridia dalmatina* Wagner

- Typhl. 190 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Quercus pedunculata* - [as *Erythroneura* (= *disjuncta* Ribaut)]: 1 ♂ 2 ♀ ♀ not prepared.
- Typhl. 195 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 24-IX-57 - [as *Erythroneura* (= *disjuncta* Ribaut)] - H.P. *Rubus fruticosus*: 1 ♂ 10 ♀ ♀ - H.P. various herbaceous plants, along the above mentioned roadside: 7 ♂ ♂ (2 dry, 5 in a plastic tube), 7 ♀ ♀ (2 dry, 5 in a plastic tube), no other *Erythroneura* of gr. *parvula*.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - [as *Erythroneura* (= *disjuncta* Ribaut)]: 1 ♂ dry.
- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Helianthemum ?vulgare* (Alpine pasture) - (depigmented leaves) - [as *Erythroneura* (= *disjuncta* Ribaut)]: 1 ♂ dry.
- Typhl. 247 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Val-savarenche) - m 1,620 - 17-VI-58 - (Collected by dr Sampò) - H.P. *Dryas octopetala*, (Rosaceae), *Helianthemum camaecistus (vulgaris)* - [as *Erythroneura* (= *disjuncta* Ribaut)]: 19 adults of which 9 ♂ ♂ (3 dry, 6 in alcohol), 10 ♀ ♀ (3 dry, 7 in alcohol) - phot. 4,878: ♂; 4,879: wings - smaller ♂ ♂ mm 2.40 long; bigger ♀ ♀ mm 2.75 long - (Cfr. Typhl. 272).
- Typhl. 250 - PIEDMONT - Carignano (TO) - (Bridge on the Po) - 30-VI-58 - H.P. *Cornus sanguinea* - (as *Erythroneura* (= *disjuncta* Ribaut)): 1 ♂ not prepared.
- Typhl. 265 - AOSTA VALLEY - Gran Paradiso National Park - Tignet (AO) - (Val-savarenche) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Dryas octopetala* - (as *Erythroneura* (= *disjuncta* Ribaut)): 1 ♂ dry.
- Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - [as *Erythroneura* (= *disjuncta* Ribaut)] - H.P. *Corylus avellana* (low bushes and various herbaceous plants): 11 ♂ ♂ 15 ♀ ♀ in a plastic tube - ♂ length mm 2.8, ♀ mm 3.0 - (Cfr. Typhl. 247) - H.P. *Rubus fruticosus* (upright, coppice understorey): presence of plenty adults, 4 ♂ ♂ 3 ♀ ♀ in alcohol + !! 1 nymph.
- Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Val-savarenche) - m 1,200 ~ - 15-IX-59 - H.P. *Medicago falcata*, *Geranium sanguineum* and others - [as *Erythroneura* (= *disjuncta* Ribaut)]: presence of some adults, not so small as those of Tignet (Typhl. 247) but big like those of Stupinigi (Typhl. 272) and bigger than *E. pusilla* - ♂ ♂ ♀ ♀ not prepared.
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa*: ? 1 ♀ dry.
- Typhl. 354 - FRIULI-VENEZIA GIULIA - Trieste - Basovizza-Gropada - (Karstic zone) - 1-X-61 - H.P. *Ostrya carpinifolia* - (as *Arboridia* sp.): 2 ♀ ♀ dry.
- Typhl. 357 - FRIULI-VENEZIA GIULIA - Gorizia - (road Gorizia-Gradisca) - 2-X-61 - (Grassy slope with various broadleaf bushes 6-7 m high, in continuation with the heading! See Typhl. 356 - Cool and relatively humid environment!) - H.P. *Corylus*

avellana - (as *Arboridia* sp.): 1 ♀ dry.

- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Rubus caesius* - Rearings: 6♂♂7♀♀ on *Vitis* in the Institute's arboretum; 8♂♂7♀♀ on *Vitis* in a glass cage; 4 nymphs (2 4th instars and 2 5th instars) on *Vitis* in a glass tube - H.P. *Humulus lupulus*: 1♂5♀♀ dry - H.P. *Agrimonia eupatoria*: 1♂4♀♀ dry (very depigmented leaves) - H.P. *Ulmus campestris* (suckers at the base of the trunks, near *Rubus caesius*): 1♂4♀♀ dry - H.P. *Quercus pedunculata* (mixed with *Rhamnus frangula*): 1♂ dry.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus*: 1♂ dry + 2-3♀♀ not prepared - H.P. *Rubus caesius*: 5♂♂4♀♀ dry (♂ length mm 2.85).
- Typhl. 427 - TUSCANY - Elba Island - Poggio (LI) - (Towards Napoleon's spring) - 20-IX-62 - H.P. *Urtica dioica*: 1♂ dry.
- Typhl. 474 - TUSCANY - Collesalvetti (LI) - 20-IX-63 - H.P. *Quercus cerris* - (= *disjuncta* Ribaut): 1♂ dry.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Ulmus campestris* [bushes under the *Quercus* mentioned above (*Q. sessiliflora*, editor's note)] - (= *disjuncta* Ribaut): 3♂♂3♀♀ dry.
- Typhl. 481 - EMILIA-ROMAGNA - Castiglione dei Pepoli (BO) - m 700 - 23-IX-63 - H.P. *Carpinus betulus* (bushes): ? 6♀♀ not prepared - H.P. *Castanea vesca* (bushes) - (?*parvula* Boheman): 5♀♀ not prepared + 16♀♀ on herbaceous plants under hornbeam and chestnut bushes.
- Typhl. 497 - GREAT BRITAIN - Surrey - Box Hill - 11-VII-64 - (Windy day) - H.P. *Acer campestre*: 1♀ dry.
- Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Ulmus campestris* (hedge): 1♂2♀♀ dry.
- Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Ulmus campestris*: 2♀♀ dry.
- Typhl. 546 - LOMBARDY - Val Camonica - Breno (BS) - m 340 - Chestnut wood - 21-VIII-66 - H.P. *Castanea sativa* (suckers): 1♂ dry.
- Typhl. 569 - PIEDMONT - Colle del Moncenisio (TO) - m 2,084 - 21-IX-66 - Karstic zone, with foibas and small dolinas, between the road and the lake - H.P. *Dryas octopetala*: ? 11♂♂2♀♀ dry (very small specimens: cfr. Typhl. 247).
- Typhl. 617 - PIEDMONT - Francavilla Bisio (AL) - (Stream Lemme) - 15-VIII-81 - H.P. *Alnus glutinosa* - Bed of the stream where *Salix* and *Populus* thrive, but *Quercus* is missing: ? 1♀ dry (near *Rubus*).
- Typhl. 702 - PIEDMONT - Colletta di Giaveno (TO) - 15-VII-84 - H.P. *Corylus avellana*: 1♂ (reared from a nymph: student Demichelis).
- Typhl. 740 bis - PIEDMONT - S. Michele Mondovì (CN) - m 600 - 27-IX-84 - H.P. *Corylus avellana* (cultivated) - (?*disjuncta*): 1♀ not prepared.

ARBORIDIA pusilla (Ribaut, 1936)

- Typhl. 213 - PIEDMONT - Salabertano (TO) - (Dora Riparia Valley) - (Between Exilles and Salabertano, downstream of the road) - 8-X-57 - H.P. *Helianthemum ?vulgare* (Alpine pasture) - (depigmented leaves) - (as *Erythroneura*): !!! 6♂♂ (3 dry, 3 in

alcohol), 2 ♀ ♀ (1 dry, 1 in alcohol).

Typhl. 288 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - m 1,200 ~ - 15-IX-59 - H.P. *Geranium sanguineum* (very depigmented leaves) - (as *Erythroneura*): many adults, 4 ♂ ♂ 5 ♀ ♀ in a plastic tube (1 ♂ 1 ♀ to Linnavuori, September 1961).

Typhl. 341 - PIEDMONT - Bussoleno (TO) - (On the left of the military road) - 27-VIII-61 - H.P. *Helianthemum vulgare* - (as *Zygina*): 2 ♂ ♂ 5 ♀ ♀ dry.

Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Helianthemum vulgare*: ? 2 ♀ ♀ dry.

Typhl. 438 - PIEDMONT - San Giorio (TO) - (Susa Valley) - (Near the castle ruins) - 2-X-62 - H.P. *Helianthemum vulgare* (plants with very depigmented leaves, in arid environment among dry Gramineae North of the castle ruins): 3 ♂ ♂ 1 ♀ + 1 nymph dry - More nymphs, from which part of the adults mentioned above were reared - Oviposition on the lower leaf page! - phot. 10,486: ♂, length mm 2.6; 10,487: ♀, length mm 2.5!; 10,488: nymph, length mm 1.95 (capitate hairs, frons with black spots) - phot. 10,488 bis: oviposition, egg length mm 0.6. **Sketch** of a leaf with an egg.

Typhl. 462 - LIGURIA - Passo di Teglia (IM) - (Pylon) - m 1,400 - 15-VIII-63 - H.P. *Thymus vulgaris*, *Helianthemum vulgare*!: 1 ♂ dry (broken aedeagus, black genital blades! light only proximally) - **Sketches**.

Typhl. 483 - PIEDMONT - S. Giorio (TO) - (Dora Riparia Valley) - 5-X-63 - (Day of strong wind) - H.P. *Teucrium chamaedrys*, *Parietaria* sp., *Satureja calamintha*, *Festuca rubra*, *Poa* sp. - (Northwards and at the base of rocks sheltering more or less the vegetation beneath): 2 ♂ ♂ dry (coming from nearby *Helianthemum vulgare*).

Typhl. 518 - ABRUZZO - Gran Sasso (AQ) - Campo Imperatore - (Slope on the East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Helianthemum vulgare* (near the nettles mentioned above: *Urtica dioica*, editor's note): 1 ♀ dry.

Typhl. 519 - ABRUZZO - Gran Sasso (AQ) - (Intermediate cableway station to Campo Imperatore) - m 1,600~ - 27-VIII-64 - H.P. *Helianthemum canum* v *alpestre*, *Helianthemum chamaecistus* v *grandiflorum*: 1 ♂ 13 ♀ ♀ dry - Presence of many juveniles and depigmented leaves in procumbent tufts (strong) along the slopes of the reforestation zones.

Typhl. 543 - AOSTA VALLEY - Col de Joux (AO) - (Slope of S. Vincent) - m 1,600 approx. - 15-VIII-66 - H.P. *Helianthemum ?obscurum*: 5 ♂ ♂ dry.

ARBORIDIA ribauti (Ossiannilsson, 1937)

Typhl. 170 - PIEDMONT - Turin - (Botanical gardens) - 27-VIII-57 - H.P. *Ligustrum pyrenaicum* - (as *Erythroneura* = *parvula* Boheman): 1 ♀ dry.

Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Acer campestre* - (as *Erythroneura*) (= *parvula* Boheman sec. Ribaut) - (Plant present in the coppice wood and hedges as isolated shrubs) characteristically depigmented leaves: 2 ♂ ♂ 2 ♀ ♀ dry.

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Carpinus betulus* - (as *Erythroneura*) (= *parvula* Boheman accord-

- ing to Ribaut): var *melanica* nova: 1 ♂ dry (postclypeus bordered with black) - Forma typica: 2 ♂ ♂ 2 ♀ ♀ + 2 mature nymphs in alcohol.
- Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Erythroneura*): 4 ♂ ♂ (1 dry, 3 in a plastic tube), 5 ♀ ♀ (2 dry, 3 in a plastic tube).
- Typhl. 258 - PIEDMONT - Caluso (TO) - (Along the canal) - 28-VII-58 - H.P. hops (depigmented leaves) - (as *Erythroneura ?ribauti* Ossiannilsson 1937): 1 ♀ dry.
- Typhl. 286 - AOSTA VALLEY - Gran Paradiso National Park - Chevrère (AO) - (Valsavarenche) - m 1,120 - 12-IX-59 - Locality between Ruinaux and Fénille - H.P. *Anthriscus* sp., *Chaerophyllum hirsutum*, *Heracleum sphondylium* and meadow herbs - (as *Erythroneura* = *parvula*): 1 ♂.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus*: 2 ♂ ♂ 6 ♀ ♀ not prepared.
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Carpinus betulus*: 6 ♂ ♂ 7 ♀ ♀ (on *Vitis* in a glass tube) (some specimens parasitized by *Aphelopus*).
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - H.P. *Carpinus betulus*: 7 ♂ ♂ 7 ♀ ♀ dry + 15 ♀ ♀ not prepared - H.P. *Rubus caesius*: 1 ♂ dry, length mm 3.1.
- Typhl. 414 - PIEDMONT - Cumiana (TO) - Hamlet Raimondi (Buglione's house) - m 600-700 - 24-VIII-62 - H.P. *Castanea sativa*: 1 ♂ 3 ♀ ♀ dry.
- Typhl. 418 - LIGURIA - Rezzo (IM) - (Ponte dei Passi) - m 744 - 14-IX-62 - H.P. *Carpinus betulus*: 2 ♀ ♀ not prepared.
- Typhl. 505 - LIGURIA - Bardineto (SV) - m 700 - 6-VIII-64 - H.P. *Rubus idaeus* (cultivated): 1 ♂ 2 ♀ ♀ dry.
- Typhl. 529 - JUGOSLAVIJA - (Montenegro - Danilovgrad, Titograd) - 7-IX-64 - (Near the river Zeta) - H.P. *Acer campestre* (very depigmented leaves): ? 1 ♀ dry.
- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant bushes): 9 ♂ ♂ 5 ♀ ♀ dry - (= *parvula*, sensu Ribaut, 1936), 2 ♂ ♂ dryinidized; 1 ♂ reddish coloured.
- Typhl. 748 - PIEDMONT - Turin - (Giardini Reali) - (Leg. Arnò) - 19-XI-84 - H.P. *Carpinus betulus* v *pyramidalis*: 1 ♂ dry (on a nearby *Ulmus* bush).
- Typhl. 876 - LOMBARDY - Villa Olmo (CO) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia*, plants of the park (remarkable leaf depigmentation) - (Presence of *Carpinus betulus*): ? 4 ♀ ♀ dry.
- Typhl. 949 - LOMBARDY - (Cfr. Typhl. 876) - (4-X-86) - Como - (Villa Olmo) - 19-VI-II-88 - H.P. *Ostrya* and *Carpinus* (specimens of the different species collected on the low part of the canopy of a same tree): ? 16 ♀ ♀ (4 dry).

ARBORIDIA velata (Ribaut, 1952)

- Typhl. 485 - JUGOSLAVIJA - Titograd - (Eng. Ljubo Pavicevic) - Poljoprivredni Institut (Institut Agricole) - Titograd - Yougoslavie - Letter: 7-XII-63 - H.P. oak (*Quercus pedunculata*) - (= *uncinata* Ribaut, 1931): 1 ♂ 2 ♀ ♀ (1 ♀ to Papevic) "3 specimens found on oak".
- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Tori-

nese) - m 600 - 30-VIII-64 - H.P. *Quercus pedunculata* and *Q. pubescens*: !!! 1♂ dry.
 Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) m 1,100 (near the restaurant on the road Sinj-Livno) - 4-IX-64 - karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - Beginning of the North-East slope of Dinara Planina, Dolinas, etc. - m 900 - Very sunny karstic zone, with low bushes of *Quercus* 2-3 Km downstream of Vaganj, towards Sinj - H.P. *Quercus cerris* and *Q. pubescens* (bushes): 1♀ dry.

ARBORIDIA versuta (Melichar, 1897)

- Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* (bushes) - (as *Erythroneura spathulata* Ribaut): 1♂ dry. No parasitized specimens.
- Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Strong bushes made of basal suckers grown 3-4 months ago after felling the big trees to install a tension line. The foliage is still thick and green, while that of normal bushes is scarce and yellow - (as *Erythroneura spathulata* Ribaut): 34 individuals of which 16♂♂ (6 dry, 10 in alcohol), 18♀♀ (6 dry, 12 in alcohol) - Concerning the determination, for the ♂♂ nothing to say; instead for the ♀♀ I am not sure, because of the 18 specimens, at least 11 have the postclypeus more or less intensely bordered with brown. Many of the 11♀♀ have also the pygofer (dorsally) coloured with blackish brown (and not light as Ribaut writes).
- Typhl. 64 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto, Maresciallo Garino, and Not Monti's properties) - 28-X-56 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 1♂ dry - (Cfr. Typhl. 47).
- Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura spathulata* Ribaut): 6♂♂ forma typica (3 dry, 3 in a plastic tube), 5♀♀ (3 dry, 2 in a plastic tube); forma *melanica* 10♀♀ (3 dry, 7 in a plastic tube) - 1♂ 1♀ to Linnavuori, September 1961. The 6♂♂ and the 5♀♀ have exactly all the distinctive characters described by Ribaut. 10♀♀ instead (that I consider of this species too) are more pigmented: they show the borders of the postclypeus brown; as well as the tergal part of the pygofer. It is the second time (Cfr. Typhl. 62) that I collect some of these melanic ♀♀ among typical ♂♂ and ♀♀ in a biotope in which I have not found until now specimens of other *Erythroneura* species of the *parvula* group. Therefore I think that also such melanic ♀♀ belong to *E. spathulata* Ribaut; a new var could be created for them.
- Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura spathulata* Ribaut): 53 adults of which 17♂♂ (1♂ genital appendages prepared in a glass slide, 3♂♂ phot. 3,589-3,591, 13♂♂ in alcohol) and 36♀♀ (6 dry, 30 in alcohol) - All ♂♂ have a light postclypeus - Of the 36♀♀, 17 have a completely light postclypeus, while the other 19 have the postclypeus more or less intensely coloured with brown (f. *melanica*) - The latter have also the mesosternum and all urites always well black. However also some ♀♀ of the forma typica are well depigmented. I can therefore

affirm that the appearance of the brown borders of the postclypeus is not simply due to the strengthening of pigments in older individuals, but it is a sure constant chromatic character that involves instead 50% of the ♀ ♀ present in the biotope where I collected. P.S. list of the other individuals of the same species: 1 ♀ typica phot. dorsal (3,651) and ventral (3,652); 1 ♀ forma *melanica*; phot. 3,653 ventral.

Typhl. 71 - PIEDMONT - Caluso (TO) - (Hedge of the heading of Cinto and Maresciallo Garino's properties) - 10-XI-56 - H.P. various herbaceous plants, under *Quercus* - (as *Erythroneura spathulata* Ribaut): 1 ♂ 2 ♀ ♀ in alcohol. N.B.: both the ♂ and the ♀ ♀ have the postclypeus bordered with black!! Ribaut excludes this character - (Cfr. Typhl. 64).

Typhl. 76 - PIEDMONT - Ternavasso (TO) - (Clearing of the wood beneath the new tension line) - 27-III-57 - Biotope: dry *Quercus* leaves on the ground and on the plant (bushes) - (as *Erythroneura spathulata* Ribaut): 3 ♂ ♂ 3 ♀ ♀ in alcohol.

Typhl. 91 - PIEDMONT - Stupinigi (TO) - 9-V-57 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): a population of 10 individuals (collected on a single oak plant) of which 4 ♂ ♂ 6 ♀ ♀. The ♂ ♂, the genitalia of which have been examined, have the typical pigments of this species, except one, parasitized by an *Aphelopus*, that has the postclypeus bordered with brown. Of the 6 ♀ ♀, 5 have the postclypeus bordered with brown. 1 ♂ 2 ♀ ♀ dry, 3 ♂ ♂ 4 ♀ ♀ in alcohol.

Typhl. 116 - PIEDMONT - Ternavasso (TO) - 21-VI-57 - H.P. *Quercus* sp. - (as *Erythroneura spathulata* Ribaut): 1 ♂ 1 ♀ not prepared.

Typhl. 142 - PIEDMONT - Caluso (TO) - (Canal, Braia's property) - 18-VII-57 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 2 ♀ ♀ dry.

Typhl. 146 - APULIA - Gargano (Umbra Forest) (FG) - m 800 - 22-VII-57 - H.P. *Quercus cerris* - (as *Erythroneura spathulata* Ribaut): 1 ♂ dry.

Typhl. 151 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 28-VII-57 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 1 ♂ dry.

Typhl. 177 - CAMPANIA - Punta S. Angelo-S. Agata sui Due Golfi (NA) - 4-IX-57 - (Miss Todeschini's property - Miramare-Sorrento) - H.P. chestnut (very depigmented leaves, above all those of the branches closer to the ground) - (as *Erythroneura spathulata* Ribaut): 1 ♂ dry.

Typhl. 184 - LATIUM - Montalto di Castro (VT) - 9-IX-57 - H.P. *Quercus pedunculata* and *Q. cerris* - (as *Erythroneura spathulata* Ribaut): 1 ♂ 1 ♀ dry.

Typhl. 189 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. *Corylus avellana* - (as *Erythroneura spathulata* Ribaut): 3 ♂ ♂ dry.

Typhl. 190 - PIEDMONT - Stupinigi (TO) - (Wood on the right of the road to Pinerolo) - 18-IX-57 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 3 ♂ ♂ 8 ♀ ♀ not prepared.

Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 1 ♂ 1 ♀ not prepared.

Typhl. 199 - PIEDMONT - Caluso (TO) - (Wasteland of Braia's field, along the Canal) - 28-IX-57 - H.P. *Quercus pedunculata* (small bushes) - (as *Erythroneura spathulata* Ribaut): 2 ♂ ♂ 1 ♀ dry.

- Typhl. 205 - PIEDMONT - Ternavasso (TO) - 4-X-57 - H.P. *Quercus cerris* - (as *Erythroneura spathulata* Ribaut): presence of plenty adults; ♂♂ ♀♀ not prepared.
- Typhl. 211 - PIEDMONT - Villar Focchiardo-S. Giorio (TO) - (Dora Riparia Valley) - (Wasteland on the side of the military road, on the right orographic side of the valley) - 8-X-57 - H.P. *Alnus incana* - (as *Erythroneura spathulata* Ribaut): 1♂ not prepared (?coming from nearby *Quercus*).
- Typhl. 212 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura spathulata* Ribaut): 12♂♂ 7♀♀ not prepared.
- Typhl. 233 - PIEDMONT - Caluso (TO) - (Tululena's field) - 10-V-58 - H.P. *Rubus fruticosus* - (as *Erythroneura spathulata* Ribaut): 1♀ not prepared.
- Typhl. 266 - PIEDMONT - Caselette (TO) - 3-IX-58 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 3♂♂ 5♀♀ not prepared forma typica!! (i.e. they correspond with Ribaut's description).
- Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - H.P. *Quercus* (tall bushes) - (as *Erythroneura spathulata* Ribaut): 3♂♂ 14♀♀ not prepared.
- Typhl. 289 - LIGURIA - Calizzano (SV) - 21-IX-59 - H.P. *Quercus pedunculata* - (as *Erythroneura spathulata* Ribaut): 7♂♂ 10♀♀ not prepared.
- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis* - [as *Erythroneura (Arboridia) spathulata* Ribaut]: 2♂♂ not prepared.
- Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - (as *spathulata* Ribaut) - H.P. *Castanea sativa*: 2♂♂ 2♀♀ not prepared - H.P. *Quercus pedunculata*: 3♂♂ 7♀♀ not prepared.
- Typhl. 352 - FRIULI-VENEZIA GIULIA - Trieste - S. Antonio Mocò - (Non karstic small valley, on the opposite side of the road than Typhl. 351) - 1-X-61 - H.P. *Quercus pubescens* - (as *spathulata* Ribaut): 1♂ 1♀ dry.
- Typhl. 365 - PIEDMONT - Bessolo-Villate (Mercenasco) (TO) - Motorway (Turin-Ivrea) - m 300 - 13-X-61 - H.P. *Castanea vesca* - (as *spathulata* Ribaut): 4♂♂ 5♀♀ dry.
- Typhl. 367 - AOSTA VALLEY - Arnaz (AO) - 13-X-61 - H.P. *Quercus sessiliflora* - (as *spathulata* Ribaut): 2♂♂ 1♀ not prepared.
- Typhl. 400 - PIEDMONT - Stupinigi (TO) - 20-VII-62 - H.P. *Quercus pedunculata* (mixed with *Rhamnus frangula*) - (as *spathulata* Ribaut): 3♂♂ 1♀ not prepared.
- Typhl. 401 - PIEDMONT - Stupinigi (TO) - 26-VII-62 - (as *spathulata* Ribaut) - H.P. *Carpinus betulus*: 2♂♂ dry + 2-3♀♀ not prepared - H.P. *Quercus pedunculata*: 4♂♂ 2♀♀ not prepared - H.P. *Rubus caesius*: 1♂ not prepared (under *Quercus* plants).
- Typhl. 446 - SICILY - Ventimiglia (PA) - (Leg. dr Sampò) - 10-X-62 - H.P. *Quercus lanuginosa* - (as *spathulata* Ribaut): 4♂♂ 4♀♀ dry.
- Typhl. 451 - FRANCE - Agde (Herault) - (Thicket along the seaside) - 5-V-63 - H.P. *Quercus pedunculata* - (as *spathulata* Ribaut): 1♂ 2♀♀ dry.
- Typhl. 474 - TUSCANY - Collesalveti (LI) - 20-IX-63 - H.P. *Quercus cerris* - (as *spathulata* Ribaut): 16♂♂ dry + 14♀♀.
- Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Quercus sessiliflora*, *Q. cerris* - (as *spathulata* Ribaut): 1♂ 1♀ not prepared.

- Typhl. 476 - LATIUM - Volsini mountains, North of Bolsena (VT) - m 400 and 500 - Near the French-Italian excavations of 1947 - 21-IX-63 - H.P. *Castanea vesca* (near coppices of *Quercus*, *Carpinus*, *Corylus*, etc.) - (as *spathulata* Ribaut): 1♂ 2♀ ♀ not prepared.
- Typhl. 478 - UMBRIA - Bevagna (PG) - 22-IX-63 - H.P. *Quercus sessiliflora* (low part of the canopy of big trees) - (as *spathulata* Ribaut): 2♂ ♂ 3♀ ♀ not prepared.
- Typhl. 480 - TUSCANY - Pieve a Maiano (AR) - 23-IX-63 - (Hilly maquis on the right of national route Arezzo-Florence, near the farm Gratena) - H.P. *Quercus ilex* - (as *Zygina spathulata* Ribaut): 1♂ not prepared - H.P. *Quercus sessiliflora* (mixed with *Q. ilex*) - (as *spathulata* Ribaut): 2♂ ♂ 2♀ ♀ not prepared.
- Typhl. 495 - SICILY - (Determination of 10-VI-64) - Typhlocybae of the Istituto Nazionale di Entomologia in Rome collected by Hartig in autumn 1948 in Sicily; Etna, South slope, Piano della Lepre, m 1,900 - Pedara (CT) - 600 m - 18-XI-48 - H.P. *Quercus cerris* - (as *spathulata* Ribaut): 1♀ - (*Erythroneura* sp. ♀, W. Wagner det. 1949).
- Typhl. 509 - UMBRIA - Massa Martana (PG) - (Calcareous zone, karstic) - 15-VIII-64 - H.P. *Quercus aegylops* - (as *spathulata* Ribaut): 3♂ ♂ 1♀ dry.
- Typhl. 514 - LATIUM - Karstic zone along the road L'Aquila-Rieti at the height of Ponte Alto after Antrodoco (RI) - 16-VIII-64 - H.P. *Acer monspessulanum*, *Ostrya carpinifolia*, *Quercus pubescens*, *Q. aegylops* - (as *spathulata* Ribaut): 2♀ ♀ dry.
- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Torinese) - m 600 - 30-VIII-64 - H.P. *Quercus pedunculata* and *Q. pubescens* - (as *spathulata* Ribaut): 2♂ ♂ 3♀ ♀ dry - Cfr. Mondino Giordano: A xerophyllous site of the Hill of Turin, vegetation and soils. Allionia, vol. 8, pp. 159-177, 7 figures, 1962.
- Typhl. 529 - JUGOSLAVIJA - Montenegro - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Quercus cerris*, *Q. pubescens* - (as *spathulata* Ribaut): ♂ ♂ ♀ ♀.
- Typhl. 590 - TUSCANY - Marina di Grosseto (GR) - 19-VIII-80 - H.P. *Quercus pubescens*: 5♂ ♂ 6♀ ♀ dry - phot. (...): ♂, length mm 3.0.
- Typhl. 633 - PIEDMONT - Gattinara (VC) - (Baraggia) - 17-IX-81 - H.P. *Quercus pedunculata* (coppice among *Rhamnus*): 2♂ ♂ 5♀ ♀ (1♂ 1♀ dry).
- Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Quercus pedunculata* (railing towards the Medieval castle): 1♀ not prepared (= *E. spathulata* Ribaut).
- Typhl. 756 - SICILY - Madonie (PA) - (Piano Battaglia) - m 1,400 - 30-V-85 - H.P. *Quercus petraea*: 20♀ ♀ of which many parasitized by pipunculids: reared in glass tubes; 1/3-VI-85 7 larvae emerged; 4-VI-85 4 larvae emerged; 5-VI-85 2 larvae emerged; 6-VI-85 2 larvae emerged; 7-VI-85 1 larva emerged; total 16 larvae. At the end of the rearing 4♀ ♀ healthy, 16♀ ♀ empty - Situation on 20-VI-85: *Chalarus* sp. 3♂ ♂ 7♀ ♀ emerged, dry; one specimen blocked in the puparium, dry; 5 puparia blocked by entomoparasitic fungi. Total 16 - (Cfr. Typhl. 446).
- Typhl. 760 - PIEDMONT - Chianocco (TO) - 12-VI-85 - H.P. *Quercus pubescens* (near *Q. ilex*): 1♂ dry (with a pipunculid larva) - (Cfr. Typhl. 756).
- Typhl. 796 - SICILY - m Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - H.P. *Betula aetnensis* (sparse specimens, along the gullies among the pinewood): 2♂ ♂ (1 dry, 1 lost).
- Typhl. 823 - REPUBLIC OF SAN MARINO - S. Marino - 26-VIII-85 - H.P. *Quercus* sp., *Thuja*: 1♀ (I collected on Gramineae beneath: no *Zyginidia*, probably too much drought).

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 4 ♀ ♀ dry.

Box 52

GENUS *FRUTIOIDIA* Zachvatkin, 1946

FRUTIOIDIA bisignata (Mulsant & Rey, 1855)

Typhl. 001 - PIEDMONT - Caluso (TO) - (Scapino's orchard) - 16-VIII-55 - H.P. apple tree - (as *Zygina*): 1 ♂ not prepared - Det. December 1960.

Typhl. 14 - PIEDMONT - Caselette (TO) - 17-X-55 - H.P. *Quercus* (bushes) - (as *Erythroneura*): 3 ♀ ♀ dry.

Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura*): 5 ♀ ♀ dry.

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura*): 14 individuals of which 1 ♂ in alcohol, 13 ♀ ♀ (1 phot. 3,588, 2 dry, 10 in alcohol).

Typhl. 76 - PIEDMONT - Ternavasso (TO) - (Clearing in the wood beneath the new tension line) - 27-III-57 - Biotope: dry *Quercus* leaves on the ground and on the plant (bushes) - (as *Erythroneura*): 2 ♀ ♀ in alcohol.

Typhl. 103 - PIEDMONT - Bussoleno-San Giorio (TO) - 31-V-57 - H.P. almond - (as *Erythroneura*): 1 ♀ dry.

Typhl. 168 - PIEDMONT - Caluso (TO) - (Vidano's orchard) - 24-VIII-57 - H.P. *Salix alba* - (as *Erythroneura*): 1 ♀ dry.

Typhl. 212 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - (Small hills in the middle of the valley) - 8-X-57 - H.P. *Quercus sessiliflora* (still green bushes, among defoliated trees) - (as *Erythroneura*): 1 ♂ 2 ♀ ♀ dry.

Typhl. 221 - PIEDMONT - Pino Torinese (TO) - (Before the tunnel of the new road to Chieri) - 14-X-57 - H.P. *Carpinus betulus* - (as *Erythroneura*): 1 ♂ 1 ♀ not prepared.

Typhl. 248 - PIEDMONT - Pino Torinese (TO) - (Villa Sampò) - 25-VI-58 - H.P. apple tree - (as *Erythroneura*): 1 ♂ 2 ♀ ♀ dry.

Typhl. 280 - PIEDMONT - Villar Perosa (TO) - (road to Pra Martino) - 17-XI-58 - H.P. *Rubus fruticosus* - (as *Erythroneura*): 1 ♀ not prepared.

Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Villeneuve (AO) - 13-IX-59 - (Xerothermic belt on the left orographic slope of the valley) - H.P. *Prunus communis* (almond) - (as *Erythroneura*): ♂ ♂ ♀ ♀ not prepared.

Typhl. 296 - LOMBARDY - Prof. G. Domenichini's material - Institute of Entomology, University of Milan - December 1960 - Caronno Varesino - Campolongo (VA) - 21-VIII-59 - (as *Zygina*) - H.P. apple tree: 2 ♀ ♀ dry; 18-VIII-59: 1 ♂ 1 ♀; 1-X-59: 1 ♂ 1 ♀; 8-X-60: 1 ♂ 2 ♀ ♀; 26-VIII-60: 2 ♀ ♀ - H.P. peach, 1-X-59: 1 ♀.

Typhl. 299 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory) - 8-II-61 - (as *Zygina*) - H.P. *Juniperus communis*: 4 ♀ ♀ not prepared - H.P. *Rubus fruticosus*: 1 ♀ not prepared - H.P. understorey of small oaks, among dry leaves and *Calluna*

- vulgaris*: 1 ♀ not prepared.
- Typhl. 325 - SARDINIA - Sinnai (CA) - 12-VIII-61 - H.P. almond - (as *Zygina*): 2 ♀ ♀ dry.
- Typhl. 350 - FRIULI- VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Zygina*): 3 ♀ ♀ dry - Length mm 2.6.
- Typhl. 371 - SARDINIA - San Gregorio-San Priamo (CA) - 18-X-61 - (as *Zygina*) - H.P. apricot (still very thick foliage): 1 ♂ 3 ♀ ♀ dry (depigmented leaves and spotted as by *Monosteira unicastata*) - H.P. almond (suckers with many leaves): 1 ♀ dry - H.P. *Pistacia lentiscus*: 2 ♀ ♀ dry.
- Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - H.P. *Citrus aurantium* - (as *Zygina*): 1 ♀ dry.
- Typhl. 380 bis - PIEDMONT - Superga (TO) - (New road to Pino Torinese) - 28-I-62 - (as *Zygina*) - H.P. *Juniperus communis*: 1 ♀ not prepared - H.P. *Calluna vulgaris*: 3 ♀ ♀ not prepared.
- Typhl. 381 - SICILY - Misterbianco (CT) - 12-IV-62 - H.P. *Prunus amygdalus* (almond) - (as *Zygina*): 1 ♀ dry.
- Typhl. 405 - SARDINIA - Supramonte (Mount Corrasi), near Oliena (NU) - (Eastern slope of Mount Corrasi, m 1,400) - 11-VIII-62 - H.P. *Crataegus monogyna*, !*Prunus prostrata* (as above) (det. prof. B. Peyronel) - (Sardinia, on mount Oliena, typical endemism) - (as *Zygina*): forma typica 2 ♀ ♀ dry (very depigmented leaves, presence of many adults - It is difficult to collect for the shape of the bushes and the many thorns - (One of the 2 ♀ ♀ reared from a nymph).
- Typhl. 408 bis - SARDINIA - Monte Limbara - Above Tempio Pausania (OT) - I collected at different heights: 900-1,300 m - 14-VIII-62 - H.P. *Crataegus monogyna* (very depigmented leaves) - (as *Zygina*): 1 ♂ dry.
- Typhl. 410 bis - SARDINIA - Tempio Pausania (OT) - (Mrs Prota's holding) - 15-VIII-62 - H.P. *Malus communis*, *Pyrus communis*, *Prunus cerasus* - (as *Zygina*): 2 ♂ ♂ 4 ♀ ♀ not prepared.
- Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Crataegus monogyna* (very depigmented leaves) - (as *Zygina*): 2 ♂ ♂ dry.
- Typhl. 442 - SARDINIA - San Gregorio (CA) - 7-X-62 - H.P. *Prunus persica* - (as *Zygina*): ♂ ♂ ♀ ♀ not prepared. N.B.: on *Alnus glutinosa* (bed of the stream with water) not a leafhopper!
- Typhl. 446 - SICILY - Ventimiglia (PA) - (Leg. dr Sampò) - 10-X-62 - H.P. *Quercus lanuginosa* - (as *Zygina*): ! 2 ♀ ♀ not prepared.
- Typhl. 488 - SARDINIA - Monte Ortobene (NU) - m 900 - (South of the hotel Miramonti) - 28-V-64 - h 17-19 - (Wind) - H.P. *Quercus suber*, *Q. pseudococcinea* and *Q. ilex* (bushes) - (Wind!) - (as *Zygina*): 2 ♀ ♀ dry.
- Typhl. 489 - SARDINIA - Mount Corrasi (NU) - m 1,200-1,300 - 30-V-64 - (as *Zygina*) - H.P. *Sorbus aria*! v *obtusifolia*!: 2 ♀ ♀ dry - H.P. *Crataegus monogyna*: 2 ♀ ♀ not prepared - (Cfr. Chiappini M. - Polygonaceae, Archivio Bot. e Biogr. Italia, XXXVI-II/IV pp. 250-254).

Typhl. 508 - UMBRIA - Deruta (PG) - 15-VIII-64 - H.P. *Crataegus monogyna* - (as *Zygina*): 2♂♂ 2♀♀ dry.

Typhl. 525 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj) - m 1,100 - (near the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation: *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. Beginning of the N-E slope of Dinara Planina - Dolinas etc. - H.P. *Crataegus monogyna* and *Rosa canina* - (as *Zygina*): ♂♂ ♀♀ not prepared.

Typhl. 604 - PIEDMONT - Foresto - Susa (TO) - 22-II-81 - H.P. *Juniperus communis*: 1♀ dry.

Typhl. 661 - PIEDMONT - Turin - (Valentino Park) - 16-VIII-83 - H.P. *Crataegus* ?*monogyna*: 1♀ not prepared.

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant foliage): 1♂ dry.

Typhl. 884 - FRANCE - Toulouse - 27-X-86 - (Leg. Arzone-Alma) - Public gardens-palais des sports - H.P. *Corylus* sp. (ornamental): 1♀ dry.

FRUTIOIDIA sanguinosa (Rey, 1891)

Typhl. 62 - PIEDMONT - Ternavasso (TO) - (Wood beneath the new tension line) - 23-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* - Strong bushes made of basal suckers grown 3-4 months ago after felling big trees to instal a tension line. The foliage is still thick and green, while that of normal bushes is scarce and yellow - (as *Erythroneura*): 1♀ dry.

Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Prunus spinosa* - (as *Zygina*): !!! 3♂♂ 2♀♀ dry.

Typhl. 350 - FRIULI-VENEZIA GIULIA - Trieste - Locality Cacciatore - (Arid hill, near building sites) - 1-X-61 - H.P. *Crataegus monogyna* - (as *Zygina*): 10♀♀ dry [no ♂♂, while in Typhl. 349, on *Quercus* (*Prunus*, editor's note) there were 3], length mm 2.9.

Typhl. 430 - TUSCANY - Elba Island - Portoferraio (LI) - (Punta delle Grotte on the right of the road to Porto Azzurro - Wood of *Quercus suber* and *Quercus ilex* with a rich understorey, cool and exposed northwards) - 21-IX-62 - H.P. *Crataegus monogyna* (very depigmented leaves) - (as *Zygina*): 4♂♂ 7♀♀ dry - phot. 10,362: ♂ ; 10,363: ♀ - In the aedeagus of both species (*Z. bisignata* and *Z. sanguinosa*, editor's note) there are not the differences mentioned by Ribaut (1936). Actually only the chromatic decoration is different. Very probably *Z. sanguinosa* is just a chromatic form of *Z. bisignata*.

Box 53

GENUS *TAMARICELLA* Zachvatkin, 1946

TAMARICELLA tamaricis (Puton, 1872)

Typhl. 148 - APULIA - Taranto - (Mare Grande) - 23-VII-57 - H.P. *Tamarix gallica* - (as *Erythroneura*): 34 individuals 3♂♂ of which in alcohol and 31♀♀ (9 dry, 22 in alcohol) - phot. ♀ dorsal 4,202; tegmen and right wing of a ♀ 4,202 bis.

- Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - 10-VII-61 - River Simeto (m 10) - H.P. *Tamarix africana*: 2♂♂ 2♀♀ dry.
- Typhl. 324 - SARDINIA - Platamona (SS) - 11-VIII-61 - (Area of the marshy zone in front of the Forestry Corps' building) - H.P. *Tamarix africana*: 6♂♂ 7♀♀ dry.
- Typhl. 387 - SICILY - Agrigento - (Siculiana) - m 129 - (Fiume delle Canne, after the city) - 16-IV-62 - H.P. *Tamarix africana*: 4♂♂ 6♀♀ dry.
- Typhl. 388 - SICILY - Sciacca (AG) - (Near the banks of a water course, after the town, towards Menfi) - 16-IV-62 - H.P. *Tamarix africana*: ! 2♀♀ not prepared.
- Typhl. 406 - SARDINIA - Caprera (SS) - 13-VIII-62 - H.P. *Tamarix africana*: 3♂♂ 6♀♀ not prepared.
- Typhl. 432 - TUSCANY - Elba Island - Cavo (LI) - 21-IX-62 - H.P. *Tamarix africana*: 2♂♂ 1♀ dry.
- Typhl. 436 - TUSCANY - Elba Island - Pareti (LI) - 21-IX-62 - H.P. *Tamarix africana*: 10♂♂ 8♀♀ dry.
- Typhl. 522 - JUGOSLAVIJA - Split - (Experimental field of the Institut Zajadranske Kulture) - 2-IX-64 - H.P. *Tamarix africana*: 2♀♀ dry. N.B.: on *Teucrium polium* no typhlocybrids (but depigmented leaves). On *Santolina chamaecyparissus* (naturalized in the urban wastelands) no typhlocybrids.

Box 60

ERYTHRONEURA sp.

- Typhl. 971 - U.S.A. - West Virginia (Beltsville) - 14/15-VIII-89 - H.P. plane tree - (*Erythroneura* sp.): 13♂♂ 5♀♀ dry.
- Typhl. 972 - U.S.A. - West Virginia (Beltsville) - 17-VIII-89 - H.P. plane tree - (*Erythroneura* sp.): 3♂♂ 4♀♀.
- Typhl. 973 - U.S.A. - West Virginia (Beltsville) - 19-VIII-89 - H.P. plane tree - (*Erythroneura* sp.): 6♂♂ (1♂ with a dryinid larval sack dry), 14♀♀.
- Typhl. 974 - U.S.A. - West Virginia (Beltsville) - 21-VIII-89 - H.P. elm - (*Erythroneura* sp.): 9♀♀ not prepared.

Box 61

ERYTHRONEURA (BALILA) formosa Dworakowska, 1970

- Typhl. 667 - CHINA - Beijing - (Ming tomb) - 27-IX-83 - H.P. *Vitis* (prope *V. romanetii*, *V. amurensis*): 1♂ 1♀ dry - 1♂ in alcohol, 1♂ not usable in alcohol, 1♂ dryinidized dry - phot. plant and depigmented leaf - phot. in the laboratory: depigmentations, healthy ♂ and dryinidized ♂.

APPENDIX 1

SPECIES IN STUDY CONSIDERED NEW, IN ALPHABETIC ORDER

Box 54

ARBORIDIA helianthemii (Vidano, in litteris)

Typhl. 552 - TRENTINO-ALTO ADIGE - Mezzana (TN) - (Val di Sole) - m 900 - 22-VIII-66 - H.P. *Helianthemum obscurum*: 2 ♀ ♀ dry - (Cfr. Typhl. 556).

Typhl. 556 - TRENTINO-ALTO ADIGE - Pianizza di Sopra (BZ) - (Along the road Passo della Mendola-Bolzano. Zone with chestnuts) - m 500! - 22-VIII-66 - H.P. *Helianthemum obscurum*: 1 ♂ 1 ♀ dry.

ARBORIDIA gr. *parvula* (Vidano, in litteris)

Typhl. 66 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 30-X-56 - H.P. *Quercus cerris* and *Q. pedunculata* (strong suckers with a still green foliage) - (as *Erythroneura* n.sp.): 1 ♂ (and 1 ♀ in alcohol) very close to *E. spathulata* Ribaut, from which it differs surely by the different characters of the different genital appendages: 1) the genital blades are completely black; 2) the styli are closer to *E. spathulata* by their shape than to those of any other species of gr. *parvula*, but with some very precise peculiarities; 3) aedeagus smaller and not compressed as a spatula at the apex. Postclypeus broadly bordered with black; elytra absolutely without red pigments, but intensely infumate above all in the clavus and in the cubital cell - ♂ length ..., (♀) I include in this n.sp. hypothetically another ♀ collected contemporaneously with the ♂, that differs from the *E. spathulata* females by having: a) the postclypeus bordered with black; b) the pygofer black; c) elytra without red pigments, but very infumate and with the clavus and part of the cubital cell brown - length (♀) ... - (Cfr. Typhl. 69).

Typhl. 69 - PIEDMONT - Ternavasso (TO) - (Clearing beneath the new tension line) - 6-XI-56 - H.P. *Quercus cerris* and *Q. pedunculata* - (as *Erythroneura* n.sp. gr. *parvula*): 2 ♂ ♂ - (Cfr. Typhl. 66) - 1 ♂: with the postclypeus bordered with black and with the genital blades black, phot. 3,654, in alcohol - 1 ♂ with the postclypeus bordered with black, but with genital blades very white. Still in rearing (3-XII-56).

Typhl. 108 - APULIA - Gargano - (road S. Giovanni Rotondo-Umbra Forest) - Follocare (FG) - 6-VI-57 - (as *Erythroneura* n.sp.) - H.P. *Quercus cerris*: 7 ♀ ♀ (3 dry, 4 in alcohol) - They do not have the characters of any of the species listed by Ribaut - H.P. *Acer campestre*: 2 ♂ ♂ 1 ♀ dry.

Typhl. 127 - PIEDMONT - Stupinigi (TO) - (road to Pinerolo) - 5-VII-57 - H.P. *Quercus pedunculata* - (as *Erythroneura*): 2 ♀ ♀ not prepared, no ♂ ♂.

EDWARDSIANA ostryae (Vidano, in litteris)

Typhl. 710 - PIEDMONT - Ponte di Nava-Ormea, (CN) - 29-VII-84 - Hills dominated by karstic zones. Valley run by the stream Tanaro. Prevailing broadleaf trees: *Ostrya carpinifolia* on the slopes, *Alnus incana*, *Acer pseudoplatanus*, *Salix elaeagnos*,

along the stream. Presence also of *Corylus avellana*, *Sorbus aria*, *Acer campestre*, *Amelanchier chamaedrys* - H.P. *Ostrya carpinifolia*: !!! 1♂ dry (prope *flavescens*) - **Drawings** of the aedeagus dorsal and lateral.

EDWARDSIANA populialbae (Vidano, in litteris)

Typhl. 583 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 3-VII-78 - H.P. *Alnus incana*: 1♂ dry (coming from *Populus alba*?), Arzone's collection - [Cfr. Typhl. 195, *Typhlocyba* (*tremulae* n.sp.) *salicicola* Ribaut, 1936? - Typhl. 197, *Typhlocyba* (*quadriuncinata* n.sp.) *alnicola* Edwards, 1924 - editor's note] - Det. Vidano 1981 - **Drawings** aedeagus dorsal and lateral.

Typhl. 584 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 16-VII-78 - H.P. *Populus alba*: 1♂ dry (see T 102, Arzone) - 30-VII-78 - ? 1♂ (escaped).

Typhl. 585 - PIEDMONT - S. Giuseppe di Mompantero (TO) - (Susa) - 30-VII-78 - H.P. *Populus alba*: 1♂ (observed with a lens in a glass tube, then lost) - See T 103, Arzone.

EMPOASCA helichrysi (Vidano, in litteris)

Typhl. 181 - CAMPANIA - Positano (SA) - (Small beach towards Amalfi) - 8-IX-57 - H.P. *Helichrysum rupestre* (lanceolate leaves, no smell) and *Centaurea cineraria*: length mm 2.9 - Pale green colour with a diffused pruinosity above all dorsally (as in *E. vittata*). Head, pronotum, and scutum without white spots. Tegmina and genital appendages of the ♂ typical of the *flavescens* group - 1♂ in alcohol, with the genital appendages dissected in the same tube: 2♀♀ (1 dry, 1 in alcohol). Tegmina with the subcubital and radial cells and the clavus yellowish and with the apical cells slightly infumate. Wings with green veins, well marked. Pregenital urosternum of the ♀ whitish - Apical pygofer appendages and styli of the pygofer lobe very similar to those of *E. pteridis*, aedeagus similar to that of *E. tessellata* - (Cfr. Typhl. 182). **Drawings** of the aedeagus and upper pygofer appendages.

Typhl. 182 - CAMPANIA - Marina di Massa Lubrense (NA) - 8-IX-57 - H.P. *Centaurea cineraria*: 4♀♀ (2 dry, 2 in alcohol), 4 nymphs reared to get adults: 13/18-IX: 3♀♀ emerged (dry) - phot. 4,397-4,398; 21-IX: 1♂ emerged (in alcohol with 3 nymphal exuviae) - (Cfr. Typhl. 181).

EMPOASCA pallida (Vidano, in litteris)

Typhl. 210 - PIEDMONT - Turin - (Turin hills) - (Istituto Difesa del Fanciullo; strada Valpiana 31) - 7-X-57 - H.P. *Acer platanoides* (young wild plantlets): 2♂♂ dry - (gr. *E. flavescens*) - (Cfr. following pages and Typhl. 223) - Basic body colour (tegmina and legs included) very pale green. Presence in the forebody of the white spots like in the other species of the *flavescens* group: very clear the longitudinal one of the scutum-scutellum. Shape of the body and the contour of the vertex like in *E. decipiens* - ♂ length mm 3.8 - ♂: at a first compared examination the genital appendages (above all those of the pygofer lobe) are very similar to the corresponding ones of

- E. decipiens*, except for the appendages of the anal collar that are absolutely different, i.e. wide, well compressed laterally and obliquely, truncate apically. N.B.: with a final examination check that it is not *E. decipiens* with more or less deep changes of the upper pygofer appendages. **Drawings:** upper pygofer appendages, appendix of the anal collar of another ♂ - H.P. *Chrysanthemum indicum* (cfr. previous pages): 6♂♂ (2 dry, 4 in alcohol), 3♀♀ (1 dry, 2 in alcohol) - phot. 4,413: ♂ dorsal.
- Typhl. 223 - PIEDMONT - Turin - (Turin hills) - (Strada Valpiana 31, Istituto Difesa del Fanciullo) - 14-X-57 - H.P. *Chrysanthemum indicum* (Cfr. Typhl. 210): 1♂ dry - H.P. *Sophora japonica*: 1♂ dry (Cfr. Typhl. 279 and 349) - For the description of *E. pallida* n.sp. keep these ♂♂ of *E. decipiens* in consideration (collected in the same biotope, editor's note) in which the upper pygofer appendages show a shape near that of the corresponding appendages of *E. pallida* - **Sketches** of the appendages.
- Typhl. 238 - PIEDMONT - Exilles-Salabertano (TO) - 21-V-58 - H.P. *Clematis vitalba*: 1♂ dry - (Cfr. Typhl. 223) - Light colour and upper pygofer appendages (as in the **sketch**, editor's note).
- Typhl. 278 - PIEDMONT - Turin - (road of S. Vito) - 9-XI-58 - H.P. ... (Cruciferae), *Sambucus nigra*: 2♂♂ prepared in glycerin.
- Typhl. 279 - PIEDMONT - Turin - (Hill - road of San Vito - Strada dei Morti) - 14-XI-58 - H.P. *Ligustrum ovalifolium*: 18♂♂9♀♀ (in part dry and in part in a plastic tube like those of *E. decipiens* collected in the same biotope, editor's note) - (Cfr. Typhl. 223-349) - N.B.: the ♂♂ were classified by examining the genitalia, confirming that the yellowish individuals (alive) are *E. pallida*, while the ♀♀ were classified simply on the grounds of the colour, that is not so different in the ♀♀ of both species.
- Typhl. 349 - FRIULI-VENEZIA GIULIA - Trieste - Locality San Giovanni - (Coppice thickets on the roadsides, protected by barbed wire) - 1-X-61 - H.P. *Prunus spinosa*: 2♂♂ dry - (Cfr. Typhl. 210-223-279-353).
- Typhl. 353 - FRIULI-VENEZIA GIULIA - Trieste - Val Rosandra - (Bagnoli della Rosandra) - m 100 - (Humid environment, along a water course) - 1-X-61 - H.P. *Alnus glutinosa*: 2♂♂ dry - (Cfr. Typhl. 349).
- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Rubus fruticosus* (many depigmented leaves): !!! 1♂ dry - (Cfr. Typhl. 210).
- Typhl. 422 bis - LIGURIA - Mortola (IM) - (Curve before the bridge S. Luigi) - 15-IX-62 - H.P. *Pulicaria disenterica* (*Satureja* and *Mentha*): ? 1♂ dry.
- Typhl. 533 - PIEDMONT - Turin - (Arboretum of the Institute of Entomology) - 17-X-64 - H.P. *Rubus fruticosus*, *R. idaeus*, *Potentilla ?grandiflora* (in litteris): 1♂ dry.
- Typhl. 608 - PIEDMONT - Fenestrelle (TO) - m 1,151 - 5-VII-81 - H.P. *Solanum tuberosum*: ? 1♀ not prepared.
- Typhl. 610 - PIEDMONT - Perosa Argentina (TO) - m 650 ~ - Rio La Greve - 5-VII-81 - H.P. *Solanum tuberosum*: ? 1♂ not prepared.

EREMOCHLORITA n.sp. prope *Chlorita tessellata* (Vidano, in litteris)

- Typhl. 287 - AOSTA VALLEY - Gran Paradiso National Park - Proussaz (AO) - Rhêmes Valley - 13-IX-59 - Dam of the Cogne company (near Tache and Buillet) - m 1,000 ~ - H.P. *Artemisia campestris* - (as *Empoasca*): 12♂♂ 5♀♀ in a plastic tube - (Cfr. Typhl. 366) - **Drawings** of the aedeagus: Rhêmes Valley (dam of Cogne), Susa Valley-S. Giorio.
- Typhl. 366 - AOSTA VALLEY - Verres (AO) - (road to Champs de Prax) - 13-X-61 - H.P. *Artemisia campestris*!!! (?*hungarica*): 15♂♂ 19♀♀ dry - **Drawings** of the aedeagus - Aedeagus like that of San Giorio and Valsavarenche (it refers likely to *C. tessellata*, Typhl. 157 and *E. hungarica*, Typhl. 211, 212, 483, 496, collected at San Giorio, editor's note) - (Cfr. Typhl. 287) - *Eremochlorita*, Zachvatkin 1946: studies on the Homoptera of Turkey, Trans. Royal Ent. Soc. London, volume 97, pp. 149-176 - Dlabola 1961, Acta Ent. Mus. Nat. Praga, XXXIV, p. 305.

EUPTERYX hieraci (Vidano, in litteris)

- Typhl. 558 - TRENTO-ALTO ADIGE - Levico (TN) - (road to Vetriolo) - m 600 - 23-VIII-66 - H.P. *Hieracium* sp. (sparse, beneath larches): 1♂ 1♀ dry (similar to *E. stachydearum*) - (Cfr. Typhl. 391) - **Drawing** of the aedeagus.

EUPTERYX inulae (Vidano, in litteris)

- Typhl. 383 bis - SICILY - Augusta (SR) - m 10 - River Mulinello - (Bridge of the road Catania-Siracusa) - 14-IV-62 - H.P. *Inula viscosa*: 1♂ 4♀♀ dry + nymphs, black like those of *E. andalusiaca* - phot. 9,743: ♀ with light elytra, length mm 3.1; 9,744: another ♀ with spots on the light elytra, length mm 3.1 - Close to *E. andalusiaca* Ferrari and *E. sicula* Vidano (cfr. Typhl. 319) from which it differs, besides by the shape of the aedeagus, also by the drawings on head, pronotum, scutellum, and elytra. Similar to *Cicadella insulana* Ribaut - **Drawings** of the aedeagus dorsal and lateral.
- Typhl. 800 - SICILY - Augusta (SR) - Bridge near the river ... (between the river Cantera and the river Mulinello: fenced) - 2-VIII-85 - h 18,30-20 - H.P. *Inula viscosa*: !!not found - (Cfr. Typhl. 383).

EUPTERYX sicula (Vidano, in litteris)

- Typhl. 319 - SICILY - Catania - (road to Etna) - m 1,000-1,400 - 10-VII-61 - Gully in the shade of big chestnuts m 1,000 ~ above Nicolosi (m 698) - H.P. (*Chrysanthemum*) *Tanacetum siculum*: 12♂♂ (2 dry, 2 in alcohol, 8 in a plastic tube), 13♀♀ (3 dry, 3 in alcohol, 7 in a plastic tube) - Length: ♂♂ 2.5-2.9 mm!; ♀♀ 2.5-2.9 mm - 6♀♀ in a row, length mm 15.6/6 = mm 2.6 - Gr. *E. melissae*: apparently similar to *E. andalusiaca*. Peculiar decorations on head, pronotum, and elytra. ♂ with the 1st tarsomere of the metathoracic leg brown in the distal half. Rostrum and legs very long. Aedeagus with unmistakable specific characteristics - phot. 9,074-9,075: ♂ dorsal and lateral, length mm 2.7; 9,072-9,073: ♀ dorsal and lateral, length mm 2.7 - See *Eupteryx azorica* Ribaut 1941 (in Lindberg, Soc. Sc. Fen. VIII, 1941) - 4 **Drawings** of the aedeagus, 1 of the pygofer lobe.

Typhl. 796 - SICILY - Mount Etna (CT) - road to Piano Provenzano (from Linguaglossa) - m 1,500-1,600 - 1-VIII-85 - Pinewood (*Pinus laricio* Poiret) - m 1,650 - H.P. *Tanacetum siculum* in the shade of *Pinus laricio*: 2 ♀ ♀ dry.

MICANTULINA sicula (Vidano, in litteris)

Typhl. 755 - SICILY - Madonie (PA) - (Quacella) - m 1,200 - 30-V-85 - H.P. *Thalictrum calabricum*: 3 ♂ ♂ 13 ♀ ♀ - (Cfr. Typhl. 119) - phot.: ♂ mm 3.5; ♀ mm 3.6; eggs (2 small groups: laid in a glass tube mm 0.6); depigmented leaves - **Drawings**: aedeagus frontal and lateral, stylus and genital blades.

ZYGINA anacaprica (Vidano, in litteris)

Typhl. 179 - CAMPANIA - Anacapri (NA) - (Island of Capri) - 6-IX-57 - H.P. *Agropyron repens* and other wild Gramineae - (Cfr. Typhl. 181): 5 ♂ ♂ (3 dry, 2 in alcohol; ♂ prepared in glycerin on 28-VI-81), 5 ♀ ♀ (2 dry, 3 in alcohol) - (as *Z. anacaprica* n.sp.) - The ♂ differs from *E. scutellaris* by: 1) shape and appendages of the aedeagus; 2) shape of the upper pygofer appendages; 3) shape of the genital styli, faint differences also in the drawing of the pronotum. N.B.: check the size of *E. pulchra* Boheman, 1845 (Ossiannilsson, 1937) - (Cfr. Typhl. 181-182) - Det. Vidano 1982 - 2 **sketches**.

ZYGINA n.sp. prope *Zygina ordinaria*

Typhl. 342 - PIEDMONT - Turin - (Turin hills) - (Astronomic Observatory of Pino) - 13-IX-61 - H.P. *Carpinus betulus* - (as *Flammigeroidia*): 2 ♂ ♂ 2 ♀ ♀ dry!!! - Similar to *E. ordinaria* but with the abdomen completely brown.

ZYGINA ostryae (Vidano, in litteris)

Typhl. 876 - LOMBARDY - Villa Olmo (CO) - 4-X-86 - h 16-17 - H.P. *Ostrya carpinifolia* (plants of the park, remarkable leaf depigmentation; presence of *Carpinus betulus*): 4 ♂ ♂ 2 ♀ ♀ dry (1 ♂ 1 ♀ phot.) - Length: ♂ mm 3.0; ♀ mm 3.2.

Typhl. 949 - LOMBARDY - (Cfr. Typhl. 876) - (4-X-86) - Como - (Villa Olmo) - 19-VIII-88 - H.P. *Ostrya* and *Carpinus* (the specimens of the different species collected on the low part of the foliage of a same tree): 4 ♀ ♀ dry (1 ♀ phot.).

ZYGINIDIA lirata (Vidano, in litteris)

Typhl. 822 - EMILIA-ROMAGNA - Santo Marino (RN) - (Hamlet of Poggio Berni) - 25-VIII-85 - (Locality along the road Santarcangelo-S. Marino) - H.P. *Sorghum vulgare* (dwarf, ripening) with many dry leaves, on a hilly slope - phot. groups of plants with still green leaves, very frequented by *Zyginidia* spp. and dechlorophyllated: 1 ♂ dry - **Drawings** aedeagus, genital blades.

N.B.: the new varieties, forms, aberrations, or supposed so, are recorded in the observations concerning the relative species.

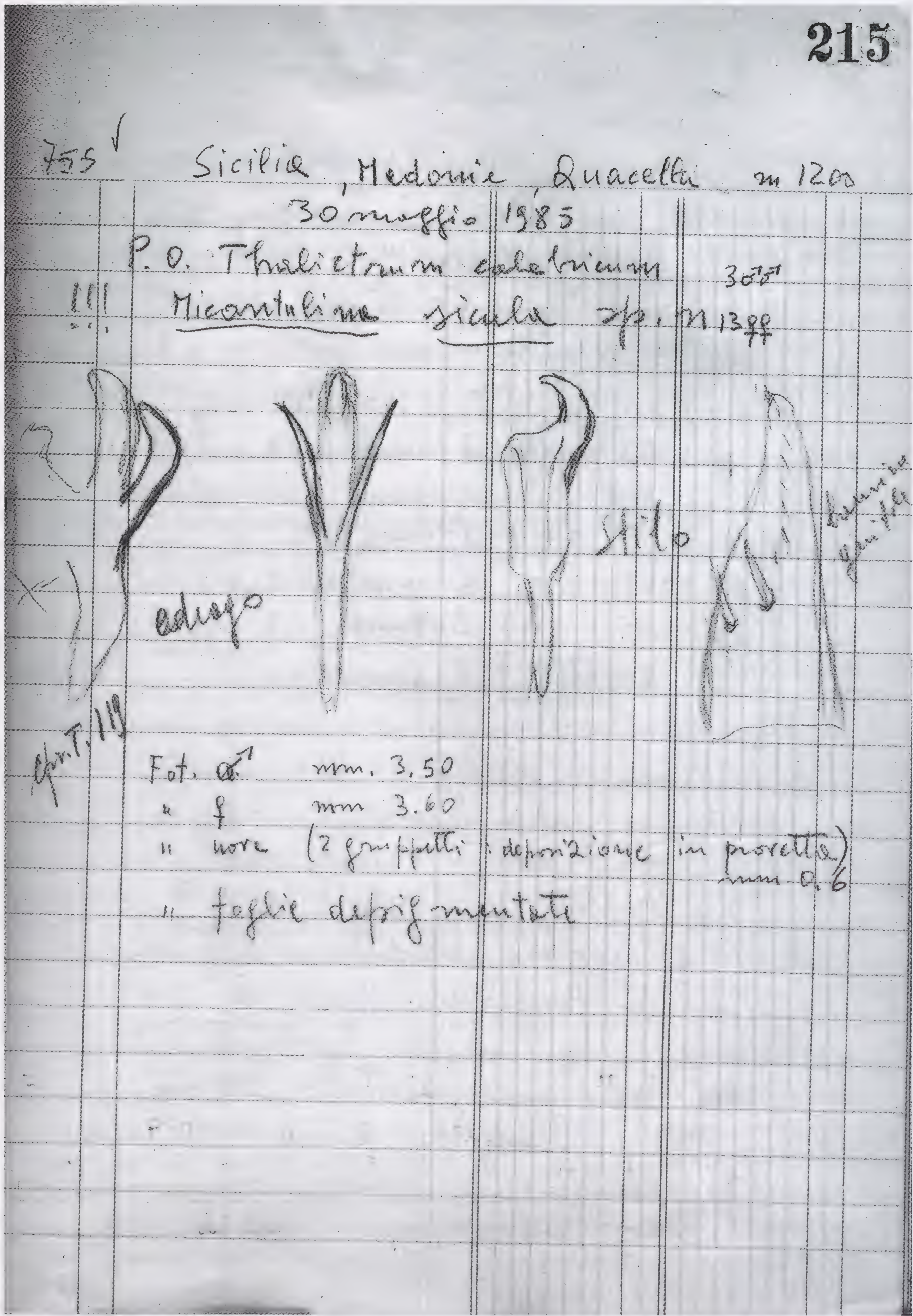


Fig. 20 - A notebook page with the sketches of the genitalia of *Micantula sicula* n. sp.

APPENDIX 2

AUCHENORRHYNCHA OTHER THAN TYPHLOCYBINAE, IN ALPHABETIC ORDER

ACONURA sp.

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - H.P. wild plants - 23-VII-84: 1 ♂ 5 ♀ ♀ - 12-VII-84: 1 ♀ - 28-VI-84: 1 ♀ .

ADARRUS spp.

Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Convolvulus arvensis*, *Plantago lanceolata*, Gramineae (in grapevine rows): 1 ♀ .

Typhl. 844 - Auchenorrhyncha collected in October 1985 near Faenza (RA) by dr Bellardi - Sample no. 1: 1 ♀ .

AGALMATIUM flavescens (Olivier, 1791)

Typhl. 764 - PIEDMONT - (Cfr. Typhl. 814) - Predosa (AL) - 23-VI-85 - H.P. *Vitis vinifera* - (as *Hysteropterum grylloides*): 1 juvenile (reared by Arnò).

Typhl. 814 - PIEDMONT - Barolo (CN) - (Farm of the Borgogno brothers) - 18-VIII-85 - H.P. grapevine (v Nebbiolo?) - (as *Hysteropterum grylloides*) - Ploughed, without weeds (except tufts here and there of *Convolvulus arvensis* in the interrows!) - Luxuriant - Some slight leaf rolling (Leafroll): ♂ ♂ ♀ ♀ feeding on a grapevine cane; reared on *Convolvulus* (dr Alma).

Typhl. 842 - EMILIA-ROMAGNA - Rhynchota (Heteroptera and Homoptera) collected at Tebano (RA) - (leg. Castellari) - 22-VII-85 - H.P. *Vitis vinifera* cv Sangiovese - (as *Hysteropterum grylloides*): 1 ♂ .

Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - H.P. Capriata's vineyard (near *Q. cerris*) - (as *Hysteropterum grylloides*): 1 nymph - ? 1 ♀ .

Typhl. 934 - LOMBARDY - Nuvolento (BS) - 30-VII-88 - H.P. grapevine (regrazed vineyard) - (as *Hysteropterum grylloides*): ? 5th instar exuvia.

ALLYGUS sp.

Typhl. 791 - PIEDMONT - Candia Canavese (TO) - 24-VII-85 - h 9,30 - Gnavi's vineyard (dr C. Gnavi's son) - H.P. grapevine (4 rows; phot. plants of the first row: only one plant with FD symptoms and *Empoasca*; symptoms much more obvious in Erbaluce than in Pinot grigio) - ?Pinot bianco (some plants!!), Young vineyard of Erbaluce in rows, well cultivated but regrazed (? Piedmontese giornata, surface measure, editor's note): 1 ♀ .

ALLYGUS atomarius (Fabricius, 1794)

Typhl. 916 - PIEDMONT - Predosa (AL) - 28-VI-88 - Dr Alma - H.P. grapevine (Paolino's vineyard): 1 ♀ (det. dr Alma).

ALLYGUS mixtus (Fabricius, 1794)

Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard) - FD: 2 plants with symptoms in the 23rd row (countings by dr Alma): 2 ♀ ♀ (1 ♀ reared, 1 ♀ dead: dissected; mature eggs).

ANACERATAGALLIA laevis Ribaut, 1935

Typhl. 673 - LIGURIA - Sanremo (IM) - (Arma di Taggia) - 3-XI-83 - Leg. M. Conti - H.P. *Convolvulus*, *Chrysanthemum*, *Chenopodium* (in wasteland) - (as *Agallia*): 13 ♂ ♂ 7 ♀ ♀ (2 ♂ ♂ 1 ♀ dry).

Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano bianco) - (as *Agallia*) - I talked with the wine grower. Present of 6 melons - Lack of symptoms - H.P. *Convolvulus*: 1 ♂ 1 ♀ (dr Alma).

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - (as *Agallia*) - 24-VII-85: 2 ♂ ♂ 2 ♀ ♀ - 12-VIII-85: 1 ♀.

Typhl. 844 - Auchenorrhyncha collected in October 1985 near Faenza (RA) by dr Belardi - (as *Agallia*) - Sample no. 1: 2 ♂ ♂.

ANACERATAGALLIA ribauti (Ossiannilsson, 1938)

Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. heading with Gramineae and dicots bordering on the maize field - (as *Agallia*): 1 ♂.

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - (as *Agallia*) - Terralba (OR) - 19-VII-83: 1 ♂ - Serramanna (VS) - 8-VI-83: 1 ♂.

ANOLOTETTIX fuscovenosus (Ferrari, 1882)

Typhl. 496 - PIEDMONT - San Giorio (TO) - 16-VI-64 - H.P. *Vitis vinifera*: 4 ♂ ♂ 12 ♀ ♀ on apices (4 ♂ ♂ 1 ♀ dry) - Some adults reared from nymphs on *Medicago*.

Typhl. 703 - LIGURIA - Pantasina di Vasia (IM) - 19-VII-84 - H.P. *Olea europaea*: 1 ♂ dry. In captivity it fed piercing part of an olive shoot and the relative leaf stalks. Near the collecting point (apex of a tender olive twig) there was also a ♀ (escaped).

Typhl. 764 - PIEDMONT - (Cfr. Typhl. 759) - Predosa (AL) - 23-VI-85 - H.P. *Vitis vinifera*: 1 ♂ (dr Alma).

Typhl. 919 - AOSTA VALLEY - Aosta - St. Pierre - Torrette m 900 - 30-VI-88 - H.P. grapevine (in bloom; regrazed vineyard): 1 ♂ 9 ♀ ♀.

Typhl. 920 - AOSTA VALLEY - Morgex (AO) - Lavancher - m 1,000 - 30-VI-88 - (Det. dr Alma) - H.P. *Solanum tuberosum* (near a vineyard): 3 ♂ ♂ 1 ♀ + 1 4th instar nymph and 2 5th instar nymphs.

APHRODES bicincta (Schrank, 1776)

Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Convolvulus arvensis*, *Plantago lanceolata*, Gramineae (in grapevine rows): 1 ♂.

APHROPHORA alni (Fallén, 1805)

- Typhl. 731 - PIEDMONT - Tetti Grondana - Chieri (TO) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age, near the greenhouses): 1♂ 1♀ dry.
- Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. grapevine (Paolino's vineyard): 1♀.

APHROPHORA salicina (Goeze, 1778)

- Typhl. 641 - PIEDMONT - Chiomonte (TO) - (Hamlet Ramats) - 4-VII-82 - H.P. *Vitis vinifera*: 1♂.
- Typhl. 774 - VENETIA - Rovolon (PD) - 10-VII-85 - h 10,20 - Vineyard, among non rural houses, along the road - H.P. ?Pinot bianco - 30% ~ with symptoms (FD?): 1♀.
- Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard) - FD: 2 plants with symptoms in the 23rd row (countings by dr Alma): 1♂.

AROCEPHALUS longiceps (Kirschbaum, 1868)

- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Torinese) - m 600 - 30-VIII-64 - H.P. Gramineae, *Festuca*, *Bromus* (among small oaks): 1♂ dry.

ARTHALDEUS striifrons (Kirschbaum, 1868)

- Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. Gramineae: 1♂ dry.

AUCHENORRHYNCHA spp.

- Typhl. 163 - LIGURIA - Bracco (SP) - (Crossroad Aurelia-Levanto) - (Baracca) - (Halfway of the crossroad Deiva-Levanto) - 17-VIII-57 - H.P. *Galium mollugo*: 4♂♂ dry.
- Typhl. 164 - LIGURIA - Riomaggiore (SP) - (Cinque Terre) - (Along the stream North-East of the village) - 17-VIII-57 - H.P. *Cyperus longus* (near the small lake): 2♂♂ 1♀ dry.
- Typhl. 188 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 18-IX-57 - H.P. wild Gramineae and *Carex* (side of a secondary road crossing the woods): 3♂♂ 2♀♀ dry - H.P. *Salix alba*: 3♀♀ dry.
- Typhl. 192 - PIEDMONT - Barone Canavese (TO) - (Surroundings of the farm Viola) - 21-IX-57 - H.P. *Acer campestre*: 1♀ dry.
- Typhl. 227 - PIEDMONT - S. Paolo Cervo (BI) - 29-X-57 - Presence of a great number of *Dikraneura hieracii* on different meadow herbaceous plants. The understorey is almost covered with leaves and was abandoned by the insect that has however left some traces on surviving plants of *Veronica urticifolia* and *Hieracium prenanthoides* - H.P. *Asplenium trichomanes* (wall of a hut), *Silene italica*: 2♂♂ dry.
- Typhl. 261 - LOMBARDY - Goito (MN) - (Sacca's Anonimous estate agency and a manager - Farmer Favulli Cesare - Farm directed by Mr Boffi) - 6-VIII-58 - H.P. *Echinochloa crus-galli*: 4♂♂ 1♀ dry.

Typhl. 272 - PIEDMONT - Stupinigi (TO) - (Wood on the left of the road to Pinerolo) - 8-X-58 - H.P. *Corylus avellana* (m 5!): 1♂ dry.

AUSTROGALLIA sinuata (Mulsant & Rey, 1855)

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 12-VII-84: 2♂♂.

Typhl. 742 - VENETIA - Typhlocybines collected on officinal plants by prof. Zangheri's pupil - Padua - 20-VIII-84: 1♀ - EMILIA-ROMAGNA - Casola Valsenio (RA) - 13-IX-84: 1♂ 3♀.

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 31-V-83: 3♂♂ - 8-VI-83: 18♂♂ - 19-VII-83: 1♀.

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 14-VI-85: 2♂♂ - 24-VII-85: 2♂♂ 1♀.

Typhl. 910 - GREECE - Thessaloniki - Mihaniona (Fishermen village) - 10-X-87 - H.P. *Gossypium herbaceum*: 1♀ (dr Alma).

BALCLUTHA saltuella (Kirschbaum, 1868)

Typhl. 950 - LOMBARDY - Tremezzo (CO) - (Park of Palace Hotel) - 20-VIII-88 - H.P. *Agrostis*?: 45♂♂ 26♀♀ and nymphs dry.

CALLIGYPONA ?reyi (Fieber, 1866)

Typhl. 403 - PIEDMONT - Stupinigi (TO) - 7-VIII-62 - H.P. *Panicum crus-galli* and other wild Gramineae - (as *marginata* Fabricius): ♂♂♀♀ - ♀♀ brachypterous and macropterous, reared on dwarfed maize and then on *Panicum crus-galli*.

Typhl. 415 - PIEDMONT - Stupinigi (TO) - 3-IX-62 - H.P. *Panicum crus-galli* and other wild Gramineae - (as *marginata* Fabricius): 8♂♂ 10♀♀, 2 nymphs dry (2♀♀ brachypterous and 1♀ parasitized by a dryinid) - 12♀♀ (some brachypterous and others macropterous), 4♂♂ reared on *Panicum*.

Typh. 437 - TUSCANY - Isola d'Elba - Capoliveri (LI) - (Locality about 4 Km far from the village. On the left of the road leading to the iron mine between Mount Calamita and Pareti) - 21-IX-62 - H.P. *Cynodon dactylon* (country road, in the mine): 11♂♂ (1 brachypterous), 10♀♀ (12 brachypterous) + juveniles, dry.

Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - 24-VII-64 - (Near a fountain upstream of the Sanatorium Agnelli) - H.P. Gramineae in a polyphyte meadow - (as *pellucida* Fabricius): ♂♂♀♀ (1♂ dry, ♀♀ brachypterous).

Typhl. 506 - EMILIA-ROMAGNA - Meldola (FC) - 15-VIII-64 - (Cfr. Typhl. 821, 822, 826) - H.P. *Sorghum vulgare* (herbage), *Cynodon dactylon*, etc. - (as *marginata* Fabricius): 3♂♂ 3♀♀ dry (1♀ macropterous and 2♀♀ brachypterous).

Typhl. 507 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - (Bed of the stream

- Bidente) - 15-VIII-64 - H.P. *Agropyron repens*, *Agropyron ?elongatum* (not mentioned by Fiori for the Apennine of Forlì), *Cynodon dactylon*: 5♂♂ 15♀♀ dry.
- Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2,200 ~ - (Close to the hotel) - 16-VIII-64 - H.P. *Poa alpina*, *Festuca elatior*, *Dactylis glomerata*: 1♂ 1♀ dry (cfr. Typhl. 518).
- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens*: 1♂ dry (cfr. Typhl. 512).
- Typhl. 528 ter - JUGOSLAVIJA - Montenegro - Titograd (vineyard of the Institute of Agronomic Research) - 7-IX-64 - H.P. *Sorghum halepense*, *Cynodon dactylon*: 3♂♂ 2♀♀ dry.

CERCOPIS sanguinolenta (Scopoli, 1763)

- Typhl. 727 - LATIUM - Roma - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - Carovilli (IS) - H.P. *Alnus cordata*: 1♂ 4♀♀.

CHLORIONA ?smaragdula (Stål, 1853)

- Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 23-VII-84: 2♂♂ 1♀ - 12-VII-84: 1♀ - 28-VI-84: 3♀♀ - 28-VI-84: 1♂.

CICADELLA viridis (Linnaeus, 1758)

- Typhl. 633 bis - PIEDMONT - Roasenda (VC) - m 220 - Baraggia - 17-IX-81 - H.P. *Oryza sativa* (from *P. crus-galli*): 1♂ 1♀.
- Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 22-XI-83 - H.P. wild Gramineae: 1♀.
- Typhl. 670 bis - EMILIA-ROMAGNA - Piacenza - 28-II-84 - H.P. Cyperaceae: ? 11 neanids - 12-III-84: ? 2 neanids.
- Typhl. 681 - PIEDMONT - Pavone Canavese (TO) - 17-VI-84 - H.P. *Zea mays* (35-40 cm tall with 6-7 leaves): 2♂♂ + nymphs.
- Typhl. 821 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated - (Cfr. Typhl. 56-57-821) - I observed on the sides of two maize rows cut for the passage of the irrigation pipe: heavy infestation by *Zyginidia* - 1st and 2nd leaf dry - Depigmented: 3rd, 4th, 5th a lot, 6th, 7th, 8th remarkably. Very heavy parasitization by *Anagrus atomus*: sampling of the blade of a 5th leaf; 1,731 eggs (217 + 212 ...) 1,617 of which parasitized - Counting by Arnò (leaves counted by dr Arnò) - 1♂ 2♀♀.
- Typhl. 828 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 1-IX-85 - H.P. *Digitaria* and *Echinochloa* in maize: 1♀.
- Typhl. 855 - PIEDMONT - Beinasco-Volvera (TO) - 30-VIII-86 - H.P. herbage *Zea mays* with *Sorghum vulgare*: 1♂.
- Typhl. 935 - LOMBARDY - Manerbio-Cigole (BS) - 30-VII-88 - H.P. maize: ♂♂ ♀♀.

CICADELLIDAE sp.

Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 10-XI-83 - H.P. *Hordeum vulgare*: 3 ♀ ♀ - H.P. wheat: 1 ♀ - 22-XI-83: 1 ♀ - 1 4th instar nymph.

CICADULA placida (Horváth, 1897)

Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 10-XI-83 - H.P. *Hordeum vulgare*: 2 ♀ ♀ - "Boscata" farm Piva - 24-XI-83 - H.P. *Triticum vulgare* (many specimens collected underground, among the clods): 5 ♂ ♂ 34 ♀ ♀.

Typhl. 695 bis - PIEDMONT - Quattordio (AL) - 8-VII-84 - H.P. *Zea mays* - (Cfr. Typhl. 678, 686, 707): 5 ♀ ♀.

Typhl. 707 - PIEDMONT - Quattordio (AL) - 22-VII-84 - H.P. *Zea mays*: 2 ♀ ♀.

Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Triticum aestivum* (*vulgare*) 10 cm tall (next to the maize field): 1 ♂ - H.P. heading with Gramineae and dicots bordering on the maize field: 3 ♂ ♂.

Typhl. 744 - PIEDMONT - Piossasco (TO) - (Towards Stupinigi) - 14-X-84 - h 11 - On Gramineae near the pylon (*Agropyron*, *Panicum*, *Setaria*) besides on maize: 2 ♂ ♂ 1 ♀.

Typhl. 768 - PIEDMONT - Castellazzo (AL) - (Bridge on the Bormida) - 7-VII-85 - H.P. *Zea mays*: ♂ ♂ ♀ ♀.

Typhl. 787 - PIEDMONT - Quattordio-Felizzano-Solero (Partisans' plaque) (AL) - 21-VII-85 - h 11 - H.P. *Zea mays* (poorly irrigated) - Beginning of blossoming - Plants with 16-19 leaves: 10-13 before the main ear, 6 after the ear - 4 main leaves dry - 5th-8th very depigmented - 9th-13th poorly depigmented: ♂ ♂ ♀ ♀.

Typhl. 789 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-VII-85 - h 19-19,30 - H.P. *Zea mays* (irrigated) - Beginning of blossoming - Plants with 16-18 leaves - 9-13 leaves before the main ear - 6 leaves after - Proximal leaves still green - Depigmented leaves: 1st-5th a lot, 6th-7th little, 8th-9th poorly: ♂ ♂ ♀ ♀.

Typhl. 790 - PIEDMONT - Casal Cermelli (AL) - (Farm Campagna) - 21-VII-85 - h 19,30-20 - H.P. maize (without furrowing) - Sprinkling irrigation - Hailstone effect on basal leaves - Few depigmentations, also in proximal leaves, still green but frayed. Plants with 16-17 leaves - 1-2 (3 ears) - 9-11 leaves before the main ear, 6 leaves after the last ear: 1 ♂ 6 ♀ ♀ dr Alma.

Typhl. 845 - SARDINIA - Villasimius (CA) - 30-IV-86 - Along the seaside - H.P. *Agropyron junceum*, *Lolium perenne*, *Hordeum murinum*, *Avena sterilis*: 1 nymph dr Alma.

Typhl. 858 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 21-IX-86 - H.P. *Zea mays*: 1 ♂.

Typhl. 879 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Zea mays* (green leaves 11th-18th): 3 ♀ ♀.

Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected in Este (PD) on maize on 24-VII-86: 2 ♂ ♂.

Typhl. 906 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 2-VIII-87 - H.P. *Zea mays*: 6 ♀ ♀.

Typhl. 935 - LOMBARDY - Manerbio-Cigole (BS) - 30-VII-88 - H.P. maize: 3 neanids.

CICADULA quadrinotata (Fabricius, 1794)

Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. *Carex* (semiarid wasteland): 2♂♂ dry.

CICADULINA bipunctata (Melichar, 1904)

Typhl. 798 - SICILY - Siracusa - (River Ciane) - (Papyrus) - 2-VIII-85 - h 15 - H.P. *Cynodon dactylon* (well depigmented leaflets): ♂♂ ♀♀ - H.P. *Sorghum vulgare* (with the inflorescence, herbage 5 cm tall), *Zea mays* with inflorescences (herbage): ♂♂ ♀♀.

CIXIUS cunicularius (Linnaeus, 1767)

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Calvani (Alghero, SS) - 6 / 15-V-83: 1♂ - Lamon (Alghero, SS) - 17/27-V-83: 1♂.

Typhl. 764 - PIEDMONT - (Cfr. Typhl. 759) - Predosa (AL) - 23-VI-85 - H.P. *Vitis vinifera* - *Hysteropterum* (*Cixius*): 1 juvenile (reared by Arnò) - (Cfr. Typhl. 814).

Typhl. 813 - PIEDMONT - La Morra (CN) - 18-VIII-85 - H.P. *Vitis* (v Nebbiolo?): ? 1♂ (dr Alma).

Typhl. 869 - VENETIA - Nanto (VI) - 26-IX-86 - H.P. *Vitis* (Cozza Aldo's farm) - Pinot bianco: BN or FD symptoms? - Rolling, vein yellowing, bunches with withered grapes: canes for cuttings: 3♂♂ 3♀♀.

CONOSANUS obsoletus (Kirschbaum, 1858)

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 13-VI-84: 1♀ - 13-VI-84: 2♂♂ 2♀♀.

Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano bianco) - I talked with the wine grower. Present of 6 melons - Lack of symptoms: 1♂.

DELPHACIDAE spp.

Typhl. 320 - SICILY - Catania - Mount Etna - (Roadman's house) - m 1,800-1,900 - 10-VII-61 - H.P. *Pteris aquilina*: 2♂♂ 1♀ dry.

Typhl. 324 - SARDINIA - Platamona (SS) - (Area of the marshy zone in front of the Forestry Corps' building) - 11-VIII-61 - H.P. *Phragmites communis*: 2♂♂ dry - H.P. *Agrostis alba* v *vulgaris* and other Gramineae and Cyperaceae in an arid glade: 4♀♀.

Typhl. 335 - SARDINIA - Cala Gonone - Dorgali (NU) - 15-VIII-61 - H.P. *Juniperus phoenicea*!: 3 specimens dry.

Typhl. 374 - SARDINIA - Cagliari - Assemini and Elmas - 19-X-61 - H.P. *Tamarix africana*: 7♂♂ 3♀♀.

Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens* (in the Botanical Garden): 1♂ dry.

- Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 24-VII-85: 2♂♂ 1♀.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected in Este (PD) on maize on 24-VII-86: 1♀ - (?*Delphax* sp.).

DELTOCEPHALINAE spp.

- Typhl. 721 - SWITZERLAND - Schatzalp - Davos - GR, CH - m 1,800 - 29-VIII-84 - H.P. *Vaccinium myrtillus*, *Thymus serpyllum*, *Molinia caerulea* (conifer understorey): ♂♂ ♀♀.
- Typhl. 905 - PIEDMONT - Strambino (TO) - 19-VII-87 - (Leg. dr Alma) - H.P. grapevine: 2 nymphs reared.

DELTOCEPHALUS pulicaris (Fallén, 1805)

- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Helianthemum vulgare* and Gramineae (meadow): 10♂♂ 2♀♀ dry.
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. heading with Gramineae and dicots bordering on the maize field: 1♂.

DICTYOPHARA europaea (Linnaeus, 1767)

- Typhl. 178 - CAMPANIA - Ravello (SA) - (Above Amalfi) - 4-IX-57 - H.P. *Parietaria* - (as *Fulgora*): ♂ parasitized by dryinid larvae - Cocooning 12-IX-57.
- Typhl. 731 - PIEDMONT - Tetti Grondana - Chieri (TO) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age, near the greenhouses) - (as *Fulgora*): 1♀ dry.
- Typhl. 815 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets: Cadriano and Viadagola) - 24-VIII-85 - H.P. grapevine cv Montuni and Trebbiano (white grapes) - (as *Fulgora*): 2♂♂ (1 dryinidized). Dr Alma.
- Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - Capriata's vineyard, near *Q. cerris*: 1♂ - H.P. *Convulvolus arvensis* (near grapevine): 2 nymphs (1 dryinidized, reared).

DICTYOPHARIDAE sp.

- Typhl. 932 - TRENTINO-ALTO ADIGE - Vezzano (TN) - 29-VII-88 - H.P. herbaceous plants under a vineyard - (as Fulgoridae): 2♀♀.

DIPLOCOLENUS abdominalis (Fabricius, 1803)

- Typhl. 564 - JUGOSLAVIJA - Kutina (Hrvatska) - Locality 70 Km from Zagreb - 1-IX-66 - hilly zone - m 250-300 - H.P. *Thymus serpyllum* (ovatus), *Prunella vulgaris* etc., in a mixed coppice wood (*Quercus robur*, *Carpinus*, etc.), high humidity: ? 1♂ dry.
- Typhl. 663 - PIEDMONT - Sestriere (TO) - m 2,035 - 19-VIII-83 - H.P. *Helianthemum nummularium* ssp. *tomentosum*, *Vaccinium myrtillus*, *Achillea*, *Geranium*, *Thymus*

serpyllum: 10♂♂ 22♀♀ - 1♂ 2♀♀ pipunculidized (reared: dead without emerging). 6 dryinidized: 6♀♀ dry. Reared (Navone), 3 cocooned (21-VIII): 1♀ emerged 18-IX-83. Phot. Navone 19-IX-83 - Det. Currado.

Typhl. 721 - SWITZERLAND - Schatzalp-Davos GR, CH - m 1,800 - 29-VIII-84 - H.P. *Knautia* and *Chaerophyllum* - Polyphyte meadow (with *Thymus serpyllum*): ? 2♀♀ (one with a dryinid).

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 28-VI-84: ? 1♀.

DIPLOCOLENUS frauenfeldi (Fieber, 1869)

Typhl. 915 - ABRUZZO - Campo Imperatore (AQ) - m 2,200 - 17-VI-88 - H.P. *Globularia*: 1♂.

EUPELIX cuspidata (Fabricius, 1775)

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 14-VI-85: 1♀.

EUSCELIDIUS variegatus (Kirschbaum, 1858)

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 5-VII-83: 1♂ - 12-VII-83: 1♀ - 19-VII-83: 1♀.

Typhl. 766 - PIEDMONT - Carema (TO) - (Leg. Vidano-Arzone) - 30-VI-85 - H.P. *Trifolium repens*, *T. pratense*: 3♀♀ (dr Alma's collection).

Typhl. 770 - VENETIA - Costozza - Longare (VI) - 9-VII-85 - h 16-18 - Farm of Conte Alvise da Schio - 60 fields, 25 ha - H.P. *Artemisia vulgaris*: 2♂♂ 1♀, 3 5th instar nymphs (Alma).

Typhl. 845 - SARDINIA - Villasimius (CA) - 30-IV-86 - Along the seaside - H.P. *Agropyron junceum*, *Lolium perenne*, *Hordeum murinum*, *Avena sterilis*: 2 nymphs.

Typhl. 848 - SARDINIA - Tharros (OR) - 3-V-86 - H.P. *Avena sterilis*, *Bromus tectorum*: 1 nymph.

EUSCELIS spp.

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 29-V-84: 3♀♀.

Typhl. 932 - TRENTO-ALTO ADIGE - Vezzano (TN) - 29-VII-88 - H.P. herbaceous plants under a vineyard: 1♂.

EUSCELIS incisus (Kirschbaum, 1858)

Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 1♀.

Typhl. 673 - LIGURIA - Sanremo (IM) - (Arma di Taggia) - 3-XI-83 - Leg. M. Conti - H.P. *Convolvulus*, *Chrysanthemum*, *Chenopodium* (in a wasteland): 4♂♂ 3♀♀ (3♂♂ dry).

- Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 23-VII-84: 1♂ 2♀ - 12-VII-84: 1♂ 1♀.
- Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - H.P. *Convolvulus arvensis*, *Plantago lanceolata*, Gramineae (in grapevine rows): 1♀.
- Typhl. 770 - VENETIA - Costozza - Longare (VI) - 9-VII-85 - h 16-18 - Farm of Conte Alvise da Schio - 60 fields, 25 ha - H.P. *Trifolium repens*: 5♂♂.
- Typhl. 772 - VENETIA - Ponte di Barbarano (VI) - (I slept in the hotel S. Giorgio) - 10-VII-85 - h 8-9 - Vegetable garden near the hotel - H.P. *Trifolium repens*: 1♂ (dr Alma).

EUSCELIS lineolatus Brullé, 1832

- Typhl. 673 bis - SARDINIA - Alghero (SS) - 20-VI-84 - Leg. Casetta (prof. Conti - Phyto-virology) - H.P. *Medicago sativa*: 7♂♂ 6♀♀ (Alma's collection).
- Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 28-VI-84: 1♂.
- Typhl. 727 - LATIUM - Roma - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - Carovilli (IS) - H.P. *Eucalyptus* (nursery): 1♂.
- Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 23-VIII-83: 1♂.
- Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 14-VI-85: 5♂♂ 8♀♀ - 24-VII-85: 4♂♂ 1♀ - 12-VIII-85: 1♂ 1♀.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 25-VII-86: 1♂.

EVACANTHUS ?interruptus (Linnaeus, 1758)

- Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - 24-VII-64 - (Near a fountain upstream of the Sanatorium Agnelli) - H.P. *Carex* and *Juncus*: 1♂ 2♀♀ dry. The aedeagus is not exactly like the one drawn by Ribaut, 1952.
- Typhl. 607 - PIEDMONT - Val Grande di Lanzo - 21-VI-81 - Forno Alpi Graie (TO) - (m 1,219) - H.P. *Solanum tuberosum* - Breno (Chialamberto) (TO) - (m 950): 1♂.

FIEBERIELLA florii (Stål, 1864)

- Typhl. 731 - PIEDMONT - Tetti Grondana - Chieri (TO) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age, near the greenhouses): 1♀ dry.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Scandiano (RE) - 23-VII-86: 1♀.
- Typhl. 899 - PIEDMONT - Predosa (AL) - 21-VI-87 - H.P. *Vitis vinifera* (Capriata's vineyard, the part next to the wasteland): 1 4th instar nymph (reared).
- Typhl. 905 - PIEDMONT - Strambino (TO) - 19-VII-87 - (Leg. dr Alma) - H.P. grapevine: 1 5th instar nymph on ivy (reared).

GRAPHOCEPHALA fennahi Young, 1977

- Typhl. 654 - PIEDMONT - Rivoli (TO) - (Greenhouse) - 18-VII-83 - H.P. *Rhododendron* spp. (evergreen): 2♂♂ 5♀♀ (Meotto legit).
- Typhl. 655 - PIEDMONT - Turin - (Valentino Park) - 22-VII-83 - H.P. *Rhododendron* spp. (evergreen): 6♂♂ 5♀♀ dry - ♂♂ ♀♀ reared on *Vitis labrusca* in a small cage. Adaptation and emission of honeydew (phot. 24-VII-83), they died gradually within 10-12 days - Adaptation also on cut *R. maximum* kept in water. They died gradually.
- Typhl. 656 - PIEDMONT - Turin - (Valentino Park) - 2-VIII-83 - H.P. *Rhododendron* spp. (evergreen): presence of many adults but not on other plant species: neither on *Azalea* - I collected and prepared 4♂♂ 2♀♀ to send to dr Young for determination.
- Typhl. 659 - PIEDMONT - Biella - (Burcina, Piacenza park) - 12-VIII-83 - H.P. *Rhododendron* spp. (and *Azalea* sp.): ♂♂ ♀♀.
- Typhl. 660 - PIEDMONT - Pallanza (NO) - (Villa Taranto) - 16-VIII-83 - Leg. Lido Bonomi - H.P. *Rhododendron griersonianum* (China): 2♂♂ 2♀♀ dry.
- Typhl. 719 - GERMANY - Hamburg, W., Park "Planten un Blomen" - 24-VIII-84 - (International Congress of Entomology). Leg. Vidano and Arzone - H.P. *Rhododendron* spp.: 5♂♂ 5♀♀ (1♂ 1♀ in copula) (nymphal exuviae, but no nymphs).
- Typhl. 874 - LOMBARDY - Tremezzo (CO) - (Villa Carlotta) - 3-X-86 - H.P. *Rhododendron* spp. (trees 20 m tall, about 150 years old): 2♂♂ 27♀♀ dry. Phot. exuviae, eggs, plenty adults on *R. ?maximum*.
- Typhl. 951 - LOMBARDY - Tremezzo (CO) - (Villa Carlotta) - 20-VIII-88 - H.P. *Rhododendron* spp.: 5♂♂ 7♀♀ dry (dr Alma).

HAEMATOLOMA dorsatum (Ahrens, 1812)

- Typhl. 727 - LATIUM - Rome - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - LIGURIA - Balestrino (SV) - H.P. *Pinus pinaster*: 1♀ (*Cercopis quinquemaculata* Germar).

HECALUS glaucescens (Fieber, 1866)

- Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 30-VIII-83: 1♂.
- Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 12-VIII-85: 4♂♂ 5♀♀, 1 nymph.

HYALESTHES obsoletus Signoret, 1865

- Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Terralba (OR) - 21-VI-83: 1♀ - Serramanna (VS) - 8-VI-83: 1♂ - 14-VI-83: 1♂.
- Typhl. 771 - VENETIA - Nanto (VI) - 9-VII-85 - h 18,30-20,30 - Nani Antonio's farm - H.P. *Vitis vinifera*: 1♂ 2♀♀ (on *Convolvulus arvensis*, both healthy and with mycoplasma symptoms). Phot. Pinot bianco with FD and *Convolvulus* healthy and

diseased. N.B.: first emergences of *H. obsoletus*, the juveniles of which develop on *Convolvulus* roots that thrive in the rows of infested grapevine.

- Typhl. 791 - PIEDMONT - Candia Canavese (TO) - 24-VII-85 - h 9,30 - Gnavi's vineyard (dr C. Gnavi's son) - H.P. nettles and *Convolvulus*: ♂ ♂ ♀ ♀ (Alma).
- Typhl. 803 - SICILY - Paceco (TP) - m 36 - 4-VIII-85 - H.P. grapevine (cv Trebbiano bianco) - I talked with the wine grower. Present of 6 melons - Lack of symptoms - H.P. *Convolvulus*: 1 ♀.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected at Este (PD) on potato on 24-VII-86: 1 ♀.
- Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - H.P. *Convolvulus arvensis* (near a grapevine): 1 ♀.
- Typhl. 905 - PIEDMONT - Strambino (TO) - 19-VII-87 - (Leg. dr Alma) - H.P. grapevine: ♂ ♂ ♀ ♀.
- Typhl. 923 - PIEDMONT - I.T.A. Alba (CN) - 26-VII-88 - H.P. *Convolvulus arvensis* (among Chardonnay grapevines): it became abundant after the use of herbicides - Now the plants affected by MLOs are relatively few: 1 ♂ 1 ♀ dry - H.P. *Urtica dioica* (it returned luxuriant after the attempt to eliminate it): 3 ♂ ♂ 2 ♀ ♀ dry.

JASSARGUS prope obtusivalvis (Kirschbaum, 1868)

- Typhl. 521 - PIEDMONT - Turin - (Superga) - (Arid area on the left of the road to Pino Torinese) - m 600 - 30-VIII-64 - H.P. *Helianthemum grandiflorum* among Gramineae, near small oaks - ?n.sp.: 2 ♂ ♂ dry.
- Typhl. 844 - Auchenorrhyncha collected in October 1985 near Faenza (RA) by dr Bellardi - Sample no. 1: 2 ♀ ♀. They lived on wild plants of *Cirsium* and *Convolvulus* next to grapevine.

IASSUS sp.

- Typhl. 679 - PIEDMONT - Bussoleno (Foresto) (TO) - 14-VI-84 - H.P. *Quercus pubescens*, depigmented leaves (nymphs reared by Bosco): ?juveniles.

IASSUS lanio (Linnaeus, 1761)

- Typhl. 717 - PIEDMONT - Belmonte-Cuornè (TO) - 12-VIII-84 - H.P. *Castanea sativa* (low and luxuriant shrubs): 1 ♀ dry.

Idiocerus spp.

- Typhl. 300 - PIEDMONT - Ternavasso (TO) - 10-II-61 - H.P. *Juniperus communis*: 1 ♀ dry.
- Typhl. 603 - PIEDMONT - Chianocco-Susa (TO) - 22-II-81 - H.P. *Juniperus communis*, *Pinus sylvestris*: ? 1 ♀ not prepared.
- Typhl. 616 - PIEDMONT - Predosa (AL) - 9-VIII-81 - H.P. *Quercus cerris*, *Q. pubescens*: ? 1 ♀ dry (2 green nymphs).
- Typhl. 731 - PIEDMONT - Tetti Grondana - Chieri (TO) - 20-IX-84 - H.P. *Alnus cordata* (a tree of about 10 years of age, near the greenhouses): 1 ♀ dry.

ISSUS sp.

Typhl. 718 - PIEDMONT - Locana-S. Giacomo (TO) - m 1,020 - 15-VIII-84 - H.P. *Acer pseudoplatanus* - Depigmented leaves with black exuviae of 5th instar nymphs (of *Eurhadina prope loewii*, editor's note): 1♂ dry.

JAPANANUS hyalinus (Osborn, 1900)

Typhl. 694 - PIEDMONT - Turin - (Istituto Massimo d'Azeglio) - 6-VII-84 - H.P. *Acer palmatum* (Japanese) - (= *Platymetopius cinctus* Matsumura): 2♂♂ 5♀♀ dry, phot. Neanids and nymphs reared.

Typhl. 699 - PIEDMONT - Turin - (Valentino Park) - 12-VII-84 - H.P. *Acer palmatum* (depigmented leaves): on 13/18-VII 4♂♂ 5♀♀ emerged in the laboratory from nymphs, dry - 1♂ 4♀♀ dry + juveniles of different stages and exuviae. Phot. ♂, ♀, and nymph. Phot. of plant material at Valentino.

Typhl. 884 - FRANCE - Toulouse - 27-X-86 - Leg. Arzone-Alma - Public gardens-palais des sports - H.P. *Acer palmatum*: 1 nymph + 3 exuviae (dr Arnò, reared).

JASSIDAE spp.

Typhl. 157 - PIEDMONT - S. Giorio-Bussoleno (TO) (Valle di Susa) - 6-VIII-57 - H.P. *Artemisia campestris*: 2♂♂ 1♀ dry.

Typhl. 256 - AOSTA VALLEY - Livionaz (AO) - (Valsavarenche) - 24-VII-58 - H.P. *Thymus?*: 1♂ dry.

Typhl. 269 - AOSTA VALLEY - Parco Nazionale Gran Paradiso - Tignet (AO) track to Livionaz - (Valsavarenche) - m 1,600 - 26-IX-58- (collected by dr Sampò) - H.P. a polyphyte meadow, understory: 13 adults of 4 species in a plastic tube.

Typhl. 287 - AOSTA VALLEY - Parco Nazionale Gran Paradiso - Rhêmes-Notre-Dame (AO) - (Rhêmes Valley) - m 1,725 - 13-IX-59 - H.P. *Polycnenum arvense*: 7♂♂ + ♀♀ in a plastic tube.

Typhl. 523 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 800-1,000 - 3-IX-64 - H.P. *Satureja montana* (according to Ariello: *S. graeca* v *consentina*): 4♂♂ dry.

Typhl. 526 - JUGOSLAVIJA - Same locality of Typhl. 525 [Prolog (Vaganj), editor's note] - m 900 - 4-IX-64 - Very sunny karstic zone, with low *Quercus* shrubs - 2-3 Km downstream of Vaganj towards Sinj - H.P. *Globularia cordifolia* v *bellidifolia* (lawns): 2♂♂ dry.

Typhl. 528 bis - JUGOSLAVIJA - (Montenegro) - Lovćen - m 1,350 - Locality near Njeguši - On the road Kotor-Cetinje - 7-IX-64 - H.P. *Globularia cordifolia* v *repens*: 1♂ dry.

Typhl. 534 - ISRAEL - (Leg. dr Harpaz) - Rehovot - 10-X-64 - (as *Empoasca*) - H.P. *Gossypium* (cotton) - Iassid I: 2♂♂ 1♀ dry - Iassid II: 1♂ dry.

JASSOIDEA spp.

Typhl. 265 - AOSTA VALLEY - Parco Nazionale Gran Paradiso - Tignet (AO) - (Valsavarenche) - m 1,620 - 28-VIII-58 - (Collected by dr Sampò) - H.P. *Briza media*,

Dactylis glomerata, *Deschampsia cespitosa* (Gramineae): 1 ♀ with dryinid dry.

Typhl. 271 - PIEDMONT - Stupinigi (TO) - (Bridge on the stream Sangone) - 8-X-58 - H.P. *Salix purpurea*: 1 ♀ dry - H.P. *Cynodon dactylon* (arid environment): 3 species (♂ ♂ ♀ ♀ in a plastic tube).

LABURRUS impictifrons (Boheman, 1852)

Typhl. 504 - LIGURIA - (Cfr. Typhl. 423) - Carpe (SV) - (road Borghetto S. Spirito-Calizzano) - m 600 approx. - ("Belvedere") - 6-VIII-64 - H.P. *Artemisia alba*: 4♂ ♂ 5♀ ♀ dry.

LAODELPHAX striatellus (Fallén, 1826)

Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Sorghum vulgare* (herbage) - (Very depigmented basal leaves): ♂ ♂ ♀ ♀ not prepared.

Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. *Holcus lanatus*, *Eleusine indica*, etc.: 4♂ ♂ 3♀ ♀ dry.

Typhl. 591 - PIEDMONT - Carignano (TO) - 23-VIII-80 - H.P. *Zea mays*: 1 ♀ phot. mm 3.5.

Typhl. 605 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 12-VI-81 - H.P. *Zea mays*: ♂ ♂ ♀ ♀.

Typhl. 645 - LIGURIA - Ventimiglia (IM) - (Locality Calandre, among rocks, along the seaside, beneath the hamlet Ville) - 20-VIII-82 - H.P. *Sorghum halepense*, *Lolium*, *Arundo donax*: 3♂ ♂ 1♀ not prepared.

Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 1♂ dry.

Typhl. 688 - PIEDMONT - Casale Monferrato (AL) - 24-VI-84 - H.P. *Zea mays*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 695 - PIEDMONT - Poirino (TO) - 8-VII-84 - H.P. *Zea mays*: 4♂ ♂ 2♀ ♀ not prepared.

Typhl. 695 bis - PIEDMONT - Quattordio (AL) - 8-VII-84 - H.P. *Zea mays*: 1♂ 1♀ not prepared.

Typhl. 707 - PIEDMONT - Quattordio (AL) - 22-VII-84 - H.P. *Zea mays*: 1♂ 1♀ not prepared.

Typhl. 715 - PIEDMONT - Predosa (AL) - (Three joint sheets) - 5-VIII-84 - H.P. *Zea mays* (in a woody zone, in a maize field, among vineyards, wheat stubble and woods - Cfr. Typhl. 671): 1♂ not prepared.

Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Triticum aestivum* (*vulgare*) 10 cm tall (next to the maize field): 1♂ dry.

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps on tomato cultivations in Sardinia - Terralba (OR) - 8-VI-83: 3♂ ♂ 9♀ ♀ (1♀ dryinidized). Il 21-VI: 1♀. On 12-VII: 1♂ 1♀ - On 19-VII: 1♀ dryinidized - Serramanna (VS) - 8-VI-83: 2♂ ♂ 3♀ ♀ (1♀ dryinidized).

Typhl. 768 - PIEDMONT - Castellazzo (AL) - (Bridge on the Bormida) - 7-VII-85 - H.P. *Zea mays*: ♂ ♂ ♀ ♀.

Typhl. 769 - PIEDMONT - Predosa (AL) - 7-VII-85 - H.P. *Vitis vinifera*: 1♂ 1♀.

- Typhl. 772 - VENETIA - Ponte di Barbarano (VI) - (I slept in the hotel S. Giorgio) - 10-VII-85 - h 8-9 - Vegetable garden near the hotel - H.P. *Trifolium repens*: 1♂ 1♀.
- Typhl. 792 - PIEDMONT - Candia Canavese (TO) - (Pachier) - 24-VII-85 - H.P. grapevine Erbaluce (4 Piedmontese giornate, surface measure, editor's note) rows, regrazed (above all bermuda grass): ♂♂ ♀♀.
- Typhl. 813 - PIEDMONT - La Morra (CN) - 18-VIII-85 - H.P. *Vitis* (v Nebbiolo?): 1♀ not prepared. Phot. vineyard at the height of m 450 ~ ploughed, without weeds, luxuriant, with few symptoms of Virus Leafroll.
- Typhl. 821 - EMILIA-ROMAGNA - Gualdo (hamlet of Meldola) (FC) - m 105 - 25-VIII-85 - H.P. *Zea mays* (plot next to the stream Bidente) - Irrigated: 2♂♂ 3♀♀ not prepared.
- Typhl. 822 - EMILIA-ROMAGNA - Santo Marino (RN) - (Hamlet of Poggio Berni) - 25-VIII-85 - (Locality along the road Santarcangelo-S. Marino) - H.P. *Sorghum vulgare* (dwarf, ripening) with many dry leaves, on a hilly slope: 1♂ not prepared.
- Typhl. 855 - PIEDMONT - Beinasco-Volvera (TO) - 30-VIII-86 - H.P. *Zea mays*, *Sorghum vulgare*: 7♂♂ 10♀♀ (1♂ dryinidized) + 2 nymphs.
- Typhl. 878 - PUGLIA - Palagiano (TA) - VI-86 - Leg. dr M. Conti - H.P. egg plant field: 16♂♂ 18♀♀ not prepared.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Villanova (RA) - 11-VIII-86: 2♂♂ 2♀♀.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected at Este (PD) on maize on 24-VII-86: 2♀♀ - On potato: 1♀.
- Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - H.P. *Inula viscosa* (near a grapevine): 1♀ - H.P. *Convolvulus arvensis* (near a grapevine): 1♀.
- Typhl. 906 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 2-VIII-87 - H.P. *Zea mays*: 1♀.
- Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard): 1♀.
- Typhl. 928 - FRIULI-VENEZIA GIULIA - Codroipo (UD) - 29-VII-88 - H.P. Gramineae (in a vineyard): ? ♂♂ ♀♀ (dr Alma).
- Typhl. 939 - PIEDMONT - Barbaresco (CN) - 3-VIII-88 - Farm La Spinona - Berutti Pietro - H.P. *Panicum crus-galli* (isolated tufts): 1♂ 2♀♀ also on grapevine (Chardonnay editor's note) not prepared.
- Typhl. 948 - SWITZERLAND - Cadenazzo (CH) - (Lugano) - 19-VIII-88 - (Vidano, Arzone, Alma) - Farm Ramello - Piano di Magadino - Agr. Eng. Enrico Alberto Fetknechi - H.P. *Zea mays* for the production of hybrids - Probable MRDV cases - Remarkable dwarfing (above all towards the heading) but above all no enations and root alterations - Plants of *Digitaria sanguinalis* and *Panicum crus-galli* in surrounding wastelands, in ditches and in maize fields too: 2♂♂ 1♀ (dr Alma).

LEPYRONIA coleoptrata (Linnaeus, 1758)

- Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 22-XI-83 - H.P. *Triticum vulgare* (many specimens collected underground, among the clods): 1♀.

LYCORMA delicatula White, 1845

- Typhl. 664 - CHINA - Lanzhou - m 1,500 - 13-IX-83 - H.P. *Ailanthus altissima* and plants of *Vitis vinifera*: 2♂♂ 2♀♀ dry. Phot. on *Ailanthus*, phot. in the laboratory (October 1983). Other specimens phot. on grapevine (?*amurensis* ?*romanetii*) near the Ming tomb (Beijing) 27-IX-83 - (Cfr. Typhl. 667).
- Typhl. 667 - CHINA - Beijing - (Ming tomb) - 27-IX-83 - H.P. *Vitis* (prope *V. romanetii*, *V. amurensis*): phot. 3 specimens on grapevine.

MACROPSIS fuscula (Zetterstedt, 1828)

- Typhl. 746 - LOMBARDY - Rovescala (PV) - May-June 1984 - Material in alcohol - Leg. prof. Domenichini - Rovescala (PV) - 30-V-84 - H.P. grapevine: 1 nymph - H.P. brambles: 4♂♂ 1♀.

MACROSTELES spp.

- Typhl. 727 - LATIUM - Rome - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - Carovilli (IS) - H.P. *Eucalyptus* (in a nursery): 1♀.
- Typhl. 728 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 15-IX-84 - H.P. *Zea mays*: 1♂ 1♀.
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. *Zea mays*: 1 3rd instar nymph reared - H.P. *Zea mays* (herbage between Carignano and La Loggia): 5 nymphs - (Cfr. Typhl. 733).
- Typhl. 855 - PIEDMONT - Beinasco-Volvera (TO) - 30-VIII-86 - H.P. *Zea mays*, *Sorghum vulgare*: 5♂♂ 2♀♀.
- Typhl. 933 - TRENTINO-ALTO ADIGE - Pergolese-Sarche (TN) - 29-VII-88 - H.P. grapevine (regrazed vineyard: Gramineae): ♂♂ ♀♀.

MACROSTELES alpinus (Zetterstedt, 1828)

- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Triticum aestivum* (*vulgare*) 10 cm tall (next to a maize field): 1♂ - H.P. heading with Gramineae and dicots bordering on the maize field: 3♂♂ 3♀♀ + 2 nymphs - H.P. plots of *Dactylis glomerata* and *Trifolium repens*: 1♀.

MACROSTELES quadripunctulatus (Kirschbaum, 1868)

- Typhl. 673 - LIGURIA - Sanremo (IM) - (Arma di Taggia) - 3-XI-83 - Leg. M. Conti - H.P. *Convolvulus*, *Chrysanthemum*, *Chenopodium* (in a wasteland): 1♂ 2♀♀ (1♂ dry).

MACROSTELES sexnotatus (Fallén, 1806)

- Typhl. 494 - Homoptera Auchenorrhyncha - Dr I. Harpaz: letter 15-VII-63 - Pavia - 11-VIII-62 - H.P. rice: 5♂♂ - Vercelli - 9-VIII-62: 7♂♂ 4♀♀ - Copiano (PV) - 11-VIII-62: 5♂♂ 3♀♀ - Trecate (NO) - 10-VIII-62: 2♂♂ 2♀♀.

- Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. *Holcus lanatus*, *Eleusine indica*, etc.: 19♂♂ 17♀♀ dry - H.P. *Stachys palustris* (in a humid ditch): ♂♂ ♀♀ - H.P. *Oryza sativa*: ♂♂ ♀♀ not prepared.
- Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 29-IX-80 - H.P. soil biology: 1♂.
- Typhl. 681 - PIEDMONT - Pavone Canavese (TO) - 17-VI-84 - H.P. *Zea mays* (35-40 cm tall, with 6-7 leaves): ♂♂ ♀♀ not prepared.
- Typhl. 690 - PIEDMONT - Carignano (TO) - (Experimental field of the Institute of Crop Sciences) - 28-VI-84 - H.P. *Zea mays*: 3♂♂ 1♀ not prepared.
- Typhl. 695 - PIEDMONT - Poirino (TO) - 8-VII-84 - H.P. *Zea mays*: 1♂ not prepared.
- Typhl. 711 - PIEDMONT - Carignano (TO) - 2-VIII-84 - (Experimental Centre of the Institute of Crop Sciences) - H.P. *Zea mays*: 1♂ 1♀.
- Typhl. 715 - PIEDMONT - Predosa (AL) - (Three joint sheets) - 5-VIII-84 - H.P. *Zea mays* (in a woody zone, in a maize field, among vineyards, wheat stubble and woods - Cfr. Typhl. 671): 1♀ not prepared.
- Typhl. 733 - PIEDMONT - Carignano-La Loggia (TO) - 20-IX-84 - H.P. *Zea mays* (herbage with plants 30-35 cm tall) - 5-6 leaves - Leaves with first depigmentations: 1♂ 1♀ not prepared.
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Zea mays* (waxy ripening phase) (I collected in the middle of the field): 2♂♂ 4♀♀ - H.P. plot of *Dactylis glomerata* and *Trifolium repens*: 6♀♀ - H.P. plot of *Trifolium pratense*: 5♂♂ 3♀♀.
- Typhl. 745 - PIEDMONT - Orbassano (TO) - (Bypass) - 14-X-84 - H.P. *Zea mays* herbage 40 cm tall (plants with 6-7 leaves, rather yellowish): 1♀ not prepared.
- Typhl. 790 - PIEDMONT - Casal Cermelli (AL) - (Farm Campagna) - 21-VII-85 - h 19,30-20 - H.P. maize (without furrowing) - Sprinkling irrigation - Hailstone effect on basal leaves - Few depigmentations, also in proximal leaves, still green but frayed. Plants with 16-17 leaves - 1-2 (3 ears) - 9-11 leaves before the main ear, 6 leaves after the last ear: 2♀♀ (1 dryinidized).
- Typhl. 948 - SWITZERLAND - Cadenazzo (CH) - (Lugano) - 19-VIII-88 - (Vidano, Arzone, Alma) - Farm Ramello - Piano di Magadino - Agr. Eng. Enrico Alberto Fetknechi - H.P. plants of *Digitaria sanguinalis* and *Panicum crus-galli* in surrounding wastelands, in ditches and in maize fields too: 2♂♂ 1♀ + 3 nymphs (1 dryinidized) (to dr Alma).

METCALFA pruinosa (Say, 1830)

- Typhl. 776 - VENETIA - Preganziol (TV) - 10-VII-85 - h 15,30-16,00 - (Bar along the road Mestre-Conegliano) - H.P. black locust: colonies of nymphs and first adults. Documentation on *Robinia pseudacacia*, *Artemisia vulgaris*, *Prunus domestica*, *Clematis vitalba*, *Celtis australis*, *Chenopodium album*, *Platanus*, ?*Rhamnus*, *Taraxacum* and *Oxalis*, *Thuja*, *Amaranthus patulus*, *Ficus carica*, *Vitis vinifera*: ♂♂ ♀♀.
- Typhl. 777 - VENETIA - Maserada sul Piave (TV) - 10-VII-85 - h 15,30-18,00 - (Toni-

ni Mario's farm, via Mattioli 72) - Pinot bianco, in the middle of the field, grafted one year ago on Merlot, affected by FD. Remarkable symptoms on the rows in a meadow, row near potatoes: better. Phot. - Cuttings for grafting taken in the farm Monti (Typhl. 778). Neighbouring plot of Merlot (his brother's) apparently healthy. Phot. Pinot bianco with FD (Mr Tonini and dr Alma), phot. healthy Merlot - I did not collect leafhoppers on grapevine because of a storm - H.P. *Urtica dioica*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 778 - VENETIA - Maserada sul Piave (TV) - 10-VII-85 - h 18,00-19,00 - (Farm Lazzerini, since 1985) - (Farm Monti until 1984) - Pinot bianco in gravelly ground, well cultivated, manured and treated: underground irrigation, slight FD symptoms. It is the cultivar that gave the cuttings for the grafts of the farm Tonini - (Cfr. Typhl. 777) - Merlot apparently healthy - Total of 60 vineyards: 30 ha (field: 5.000 m² Treviso; 3.600 m² Padua) - I did not collect leafhoppers on grapevine because of a storm - H.P. *Robinia pseudacacia*, *Ailanthus glandulosa*, *Zea mays*, *Medicago sativa*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 780 - VENETIA - Conegliano Veneto (TV) - (Hotel Cannon d'oro) - 11-VII-85 - h 8,00 - H.P. *Dalia* + *Hedera*: ♂ ♂ ♀ ♀ not prepared.

Typhl. 859 bis - VENETIA - Villorba (TV) - (Hamlet Carità) - 24-IX-86 - H.P. various: ♂ ♂ ♀ ♀ not prepared. ♀ ♀ laying eggs on *Robinia*, *Cornus* and *Alnus* (bark with cracks).

Typhl. 868 - VENETIA - Padua - (Park of the cemetery) - 26-IX-86 - H.P. various: *Philadelphus*, *Berberis*, *Prunus laurocerasus*, *Calicanthus*, *Ligustrum*, etc.: ♂ ♂ ♀ ♀ + exuviae. ♀ ♀ laying eggs on *Philadelphus* with cracked bark - Reared on grapevine and apple in the Institute's arboretum.

Typhl. 927 - FRIULI-VENEZIA GIULIA - Pozzuolo del Friuli (UD) - 28-VII-88 - H.P. *Diospyros kaki* v *geopersicum* (0.5 ha: 600 plants): ♂ ♂ ♀ ♀.

Typhl. 960 - PIEDMONT - Borgo d'Ale (VC) - 15-IX-88 - H.P. hop, black locust, *Cornus sanguinea*, *Rubus caesius*: many adults seen by Arzone. Adults documented and collected.

MOCYDIA crocea (Herrich-Schäffer, 1837)

Typhl. 466 - FRANCE - Breil sur Roya - (Maritime Alps) - 16-VIII-63 - H.P. *Rhus cotinus*: 1 ♀ dry.

Typhl. 475 - LATIUM - Canino (VT) - 21-IX-63 - H.P. *Agrostis*, *Bromus*, !*Agropyron repens*, !*Dactylis glomerata* (under the above mentioned oaks; *Q. sessiliflora* and *Q. cerris*, editor's note; in the coppice of the Torlonia maquis): 1 ♂ dry.

Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 1 ♀.

Typhl. 732 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 20-IX-84 - H.P. *Zea mays*: 1 ♂ 1 ♀.

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 22-VII-86: 1 ♂ - 25-VII-86: 1 ♀ - Scandiano (RE) - 23-VII-86: 1 ♀.

MOCYDIOPSIS attenuata (Germar, 1821)

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 22-VII-86: 1 ♀.

NEOALITURUS fenestratus (Herrich-Schäffer, 1837)

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Terralba (OR) - 28-VI-83: 1 ♂ - 10-VII-83: 1 ♀ - 8-VI-83: 1 ♀ - 5-VII-83: 2 ♂ ♂ - 19-VII-83: 1 ♂.

NEOALITURUS haematoceps (Mulsant & Rey, 1855)

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 8-VI-83: 6 ♂ ♂ 1 ♀ - 28-VI-83: 1 ♀ - 12-VII-83: 1 ♀ - 19-VII-83: 2 ♀ ♀ - Sini (OR) - 10-V / 17-V-83: 1 ♂.

NEOPHILAENUS campestris (Fallén, 1805)

Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - (Capriata's vineyard, near *Q. cerris*) - H.P. *Convolvulus arvensis* (near a grapevine): 1 ♂.

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - Capriata's vineyard (Moscato): 1 ♀.

OLIARUS spp.

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 23-VII-84: 1 ♂ - 13-VI-84: 3 ♂ ♂ 1 ♀.

Typhl. 730 - PIEDMONT - Colla di Valcasotto (CN) - 16-IX-84 - H.P. *Betula pendula* (young and luxuriant plants, near *Fagus*, *Salix* and *Rubus*, in a grassy and humid plain): 1 ♀ dry.

Typhl. 815 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets: Cadriano and Viadagola) - 24-VIII-85 - H.P. grapevine cv Montuni and Trebbiano (white grapes) - Regrazed vineyard a little neglected: 1 ♀ (dr Alma).

OPSIUS cypriacus Lindberg, 1958

Typhl. 148 - PUGLIA - Taranto - (Mare grande) - 23-VII-57 - H.P. *Tamarix gallica*: 3 ♂ ♂ 3 ♀ ♀ dry. Several ♂ ♂ ♀ ♀ in alcohol - (Cfr. Typhl. 161 and 183). **Drawings.**

Typhl. 183 - LATIUM - Civitavecchia (Rome) - (Avenue along the seaside) - 9-IX-57 - H.P. *Tamarix*: 9 ♂ ♂ dry, no ♀ ♀ - Aedeagus with appendages identical to those of the ♂ ♂ of Typhl. 148 - (Cfr. Typhl. 161).

Typhl. 324 - SARDINIA - Platamona (SS) - 11-VIII-61 - (Area of the marshy zone in front of the Forestry Corps' building) - H.P. *Tamarix africana*: 7 ♂ ♂ 2 ♀ ♀ dry. **Drawings.**

Typhl. 406 - SARDINIA - Caprera (SS) - 13-VIII-62 - H.P. *Tamarix africana*: 1 ♂ 5 ♀ ♀ dry. **Drawing.**

- Typhl. 412 - SARDINIA - River Coghinas - Bridge on the road Sassari-Tempio Pausania, after Perfugas (SS) - 16-VIII-62 - H.P. *Tamarix africana*: 3♂♂ 11♀♀ dry (2 of the 3♂♂ and some ♀♀ are surely parasitized by Pipunculidae!!!). **Drawings.**
- Typhl. 432 - TUSCANY - Isola d'Elba - Cavo (LI) - 21-IX-62 - H.P. *Tamarix africana*: 6♂♂ 5♀♀ dry (1♂ parasitized by a pipunculid!). **Drawings.**
- Typhl. 436 - TUSCANY - Isola d'Elba - Pareti (LI) - 21-IX-62 - H.P. *Tamarix africana*: 1♂ 2♀♀ dry + juveniles.
- Typhl. 486 - SARDINIA - Fertilia (SS) - 26-V-64 - H.P. *Tamarix africana*: ? 6♂♂ dry.

OPSIUS lethierryi Wagner, 1942

- Typhl. 316 - SICILY - Catania - (Plain towards the Iblei mountains) - 10-VII-61 - River Simeto (m 10) - H.P. *Tamarix africana*: 3♂♂ 2♀♀ dry.
- Typhl. 371 - SARDINIA - Cagliari - S. Gregorio-S. Priamo - 18-X-61 - H.P. *Tamarix africana*: 3♂♂ 2♀♀ dry. **Drawings.**
- Typhl. 448 - SICILY - San Cataldo (CL) - (Golfo di Castellammare) - 11-X-62 - H.P. *Tamarix africana*: 4♂♂ (1 pipunculidized), 9♀♀ (1 pipunculidized) dry.

OPSIUS stactogalus Fieber, 1866

- Typhl. 161 - LIGURIA - Deiva Marina (SP) - (Bed of the stream Deiva) - 16-VIII-57 - H.P. *Tamarix gallica* (seafront of Deiva): 17♂♂ (4 dry, 6 in a plastic tube, 7 in alcohol), 16♀♀ (3 dry, 6 in a plastic tube, 7 in alcohol), nymphs and exuviae in alcohol. Phot. 4,297: ♂ dorsal; 4,298: tegmen and wing of a ♂. **Drawings.**
- Typhl 340 - PIEDMONT - Alpignano (TO) - 27-VIII-61 - H.P. *Tamarix gallica*: 5♂♂ 7♀♀ dry. **Drawings.**
- Typhl. 358 - FRIULI-VENEZIA GIULIA - Grado (GO) - 2-X-61 - H.P. *Tamarix gallica* (sensu Ribaut): 4♂♂ dry.
- Typhl. 362 - FRIULI-VENEZIA GIULIA - Trieste - Santa Croce (near the natural tunnel, along the seaside) - 3-X-61 - H.P. *Tamarix gallica* (sensu Ribaut): 5♂♂ dry (1 of which parasitized by a pipunculid).
- Typhl. 396 - FRANCE - Nice - 20 / 30-IX-61 - H.P. *Tamarix* (leg. dr Parker, 20, avenue Villebois - Mareuil, Maritime Alps, France): 1♂ healthy - phot. 9,943-9,944: abdomen healthy ♂; 9,945-9,946: abdomen pipunculidized ♂.
- Typhl. 522 - JUGOSLAVIJA - Split - (Experimental field of the Institut Zajadranske Kulture) - 2-IX-64 - H.P. *Tamarix africana*: 5♂♂ 5♀♀ dry.

PARALIMNUS phragmites (Boheman, 1847)

- Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 28-VI-84: 2♂♂ 1♀.

PENTASTIRIDIUS leporinus (Linnaeus, 1761)

- Typhl. 713 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Vitis vinifera* - (as *Oliarus*): 3 5th instar nymphs, 1♀ dry.

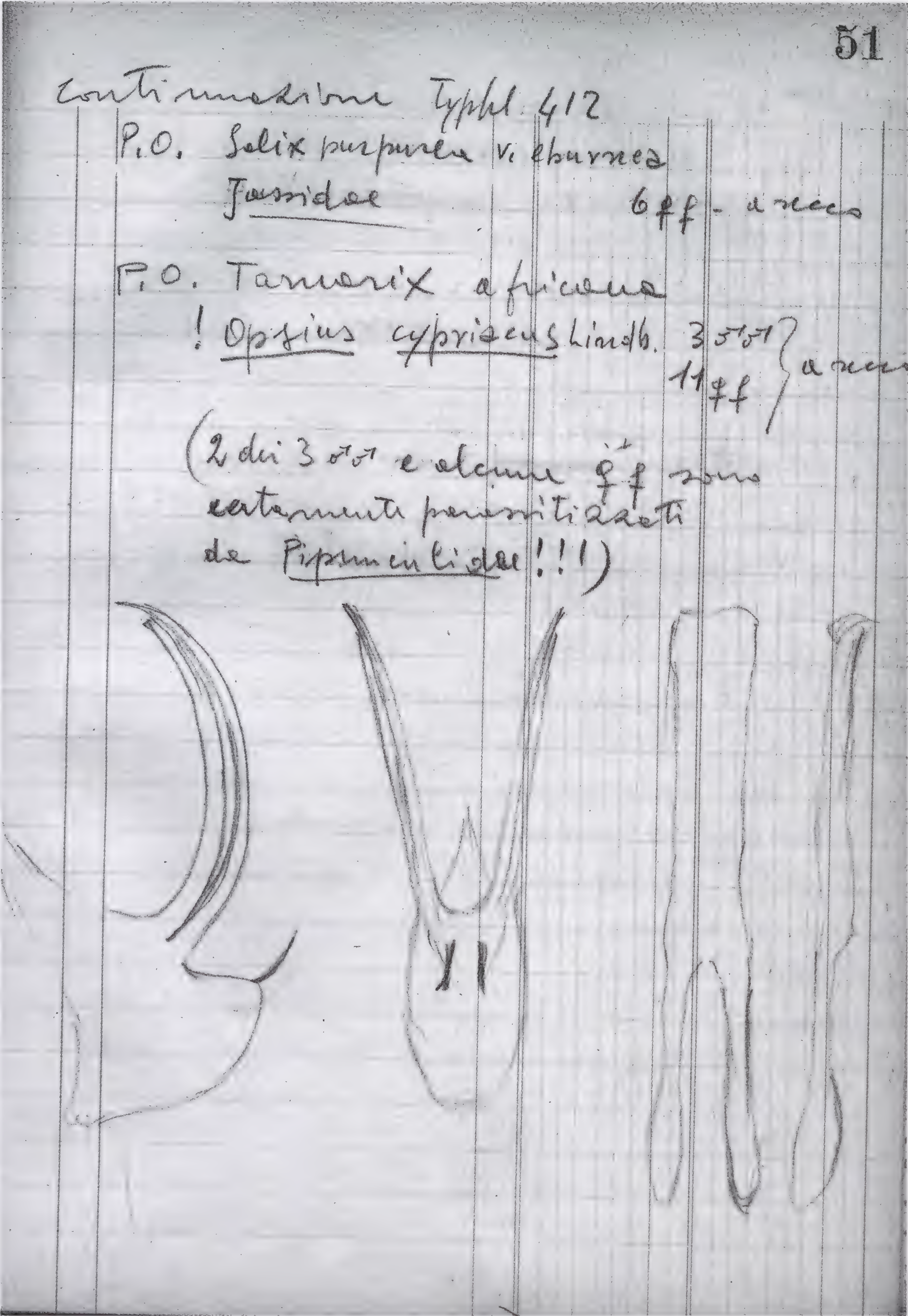


Fig. 21 - A notebook page with the sketches of the genitalia of *Opsius cypricus* Lindberg

PENTHIMIA nigra (Goeze, 1778)

Typhl. 880 - PIEDMONT - Predosa (AL) - 12-X-86 - H.P. *Quercus cerris* (above all bushes and luxuriant canopies): 1 nymph reared (dr Alma).

PHILAENUS sp.

Typhl. 503 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Fenestrelle) - m 1,600 - 24-VII-64 - (Near a fountain upstream of the Sanatorium Agnelli) - H.P. *Carex* and *Juncus*: 2♂♂ 4♀♀ dry.

Typhl. 518 - ABRUZZO - Gran Sasso (AQ) - Campo Imperatore - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Carex laevis* (among *Sesleria tenuifolia*, *Festuca ovina*, *Astragalus ?tragacantha* or *sempervirens*): ♂♂ ♀♀ mating dry.

Typhl. 641 - PIEDMONT - Chiomonte (TO) - (Hamlet Ramats) - 4-VII-82 - H.P. *Vitis vinifera*: 1♂ not prepared.

Typhl. 642 - PIEDMONT - Predosa (AL) - 11-VII-82 - H.P. *Vitis vinifera*: 1♀ not prepared.

PHILAENUS spumarius (Linnaeus, 1758)

Typhl. 494 - Homoptera Auchenorrhyncha - Dr I. Harpaz: letter 15-VII-63 - Trecate (NO) - 10-VIII-62 - H.P. rice: 1♀.

Typhl. 517 - EMILIA-ROMAGNA - Modena - (Crossroad to Tre Olmi) - 18-VIII-64 - H.P. *Vitis vinifera*: 2♂♂ 2♀♀ dry.

Typhl. 579 - LOMBARDY - Pavia - (Santa Maria della Versa) - Determination for prof. G. Domenichini, reference no. 3,825 of 29-XII-76; see joint copy - 25-VIII-76 - H.P. grapevine: 2♂♂.

Typhl. 643 - PIEDMONT - Villar Perosa (TO) - m 800 - 18-VII-82 - H.P. *Vitis vinifera*, *Solanum tuberosum*: 1♀ not prepared.

Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 20-VI-83 - H.P. *Zea mays*: 6♂♂ 1♀.

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 29-V-84: 1♀.

Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Vitis vinifera*: 2♂♂ 2♀♀ not prepared.

Typhl. 769 - PIEDMONT - Predosa (AL) - 7-VII-85 - H.P. *Vitis vinifera*: 2♀♀.

Typhl. 773 - VENETIA - Ponte di Barbarano (VI) - 2-3 Km more southwards towards Rovolon (PD) - 10-VII-85 - h 9-10 - H.P. *Vitis vinifera* - Barbera, with leaf indentation (phot.) vineyard with approx. 400 plants; 5 plants with rolled and reddened leaves (?FD). Phot. ground infested by *Amaranthus*: 1♀.

Typhl. 774 - VENETIA - Rovolon (PD) - 10-VII-85 - h 10,20 - Vineyard among non rural houses, along the road - H.P. ?Pinot bianco - 30% ~ with symptoms (FD?): 2♂♂ 2♀♀ not prepared.

Typhl. 786 bis - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Arrobio?) - 21-VII-85 - h 10-10,30 - H.P. *Vitis vinifera* (Barbera): 1♀.

Typhl. 813 - PIEDMONT - La Morra (CN) - 18-VIII-85 - H.P. *Vitis* (v Nebbiolo?): 2♂♂

(dr Alma) not prepared. Phot. vineyard at the height of m 450 ~ ploughed, without weeds, luxuriant, with few symptoms of Virus leafroll.

Typhl. 814 - PIEDMONT - Barolo (CN) - (Farm of the Borgogno brothers) - 18-VIII-85 - H.P. grapevine (v Nebbiolo?) - Ploughed, without weeds (except tufts here and there of *Convolvulus arvensis* in the interrows!) - Luxuriant - Some slight leaf rolling (Leafroll): ♂♂ ♀♀ (dr Alma).

Typhl. 815 - EMILIA-ROMAGNA - Granarolo dell'Emilia (BO) - (Hamlets: Cadriano and Viadagola) - 24-VIII-85 - H.P. grapevine cv Montuni and Trebbiano (white grapes) - Regrazed vineyard and a little neglected - Old owner, landholder Mr Zamboni, dr Rapparini's friend - Fungicide treatments: Zineb, Sulphur. etc. - Insecticide treatments: 1 Ultrafos against mites, moths, leafhoppers - Plants with leaf symptoms: rolling, thickening, yellowing (Bois Noir?): 1 ♀ (dr Alma).

Typhl. 842 - EMILIA-ROMAGNA - Rhynchota (Heteroptera and Homoptera) collected at Tebano (RA) - (leg. Castellari) - 22-VII-85 - H.P. *Vitis vinifera* cv Sangiovese: 1 ♂.

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 12-VIII-85: 1 ♂.

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Scandiano (RE) - 6-VI-86: 1 ♂ - 23-VII-86: 4 ♂♂ 2 ♀♀ - Tebano (RA) - 21-VII-86: 1 ♂ - 22-VII-86: 3 ♀♀ - 25-VII-86: 7 ♂♂ 7 ♀♀ - Villa Sesso (RE) - 23-VII-86: 1 ♂ 4 ♀♀.

Typhl. 898 - PIEDMONT - Predosa (AL) - 7-VI-87 - H.P. *Vitis vinifera* (Predosa vineyard): collecting convenient on the few plants (2-3 per row + luxuriant) - (I collected by means of a glass tube - ploughed ground - wastelands nearby) - 9 specimens not prepared.

Typhl. 899 - PIEDMONT - Predosa (AL) - 21-VI-87 - H.P. *Vitis vinifera* (Paolino's vineyard): 3 ♂♂ 2 ♀♀.

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. grapevine (Paolino's vineyard): 1 ♂ 1 ♀.

Typhl. 906 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 2-VIII-87 - H.P. *Zea mays*: 2 ♀♀.

Typhl. 907 - PIEDMONT - Predosa (AL) - 2-VIII-87 - H.P. grapevine (Paolino's vineyard) - FD: 2 plants with symptoms in the 23rd row (countings by dr Alma): 1 ♂ 1 ♀.

Typhl. 932 - TRENTINO-ALTO ADIGE - Vezzano (TN) - 29-VII-88 - H.P. herbaceous plants under a vineyard: 3 ♂♂ 1 ♀.

Typhl. 936 - EMILIA-ROMAGNA - Caorso (PC) - 30-VII-88 - H.P. grapevine, sparse rows, regrazed (*Convolvulus*, nettles, *Daucus*, Gramineae): ♂♂ ♀♀.

Typhl. 941 - PIEDMONT - Chieri (TO) - (Istituto Agrario Bonafous) - 8-VIII-88 - Vidano, Arzone, Arnò, Porporato, Falco - H.P. grapevine: ♂♂ ♀♀ (common on the plants of the headings and along the field side).

PLATYMETOPIUS spp.

Typhl. 523 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 800-1,000 - 3-IX-64 - H.P. *Satureja montana* (according to Ariello: *S. graeca* v *consentina*): 1 ♂ dry.

Typhl. 526 - JUGOSLAVIJA - Dinara Planina (Bosnia) - Prolog (Vaganj m 900) - (near

the restaurant on the road Sinj-Livno) - 4-IX-64 - Karstic soil, but luxuriant vegetation, *Fagus*, *Corylus*, *Acer pseudoplatanus*, *Fraxinus ornus*, etc. - beginning of the N-E slope of Dinara Planina-Dolina etc. - (Very sunny karstic zone, with low *Quercus* shrubs - 2-3 Km downstream of Vaganj, towards Sinj) - H.P. *Quercus cer-ris* and *Q. pubescens* (shrubs): 1 ♂ dry.

Typhl. 527 bis - JUGOSLAVIJA - Kotor - 6-IX-64 - Mura - m 150-200-300, East of the town - *Quercus ?pubescens* - H.P. *Rosmarinus officinalis* (cultivated): 1 ♀ dry.

Typhl. 529 - JUGOSLAVIJA - (Montenegro) - Danilovgrad (Titograd) - (Near the river Zeta) - 7-IX-64 - H.P. *Cornus mas* and *Cornus sanguinea* (very depigmented leaves): 1 ♀ dry (parasitized by pipunculids) - Emergence of a pipunculid larva and cocooning on 10-IX-64 - Emergence on 22-IX-64 (prepared dry with the puparium).

PLATYMETOPIUS filigranus (Scott, 1876)

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - Capriata's vineyard (near a Waste-land): 1 ♀ dry (near a peach tree).

PLATYMETOPIUS major (Kirschbaum, 1868)

Typhl. 507 - EMILIA-ROMAGNA - Gualdo (FC) - (hamlet of Meldola) - (Bed of the stream Bidente) - 15-VIII-64 - H.P. *Salix purpurea*: 1 ♂ dry.

Typhl. 511 - ABRUZZO - Gran Sasso (AQ) - m 1,100 - (Above Assergi, along the tarred road) - 16-VIII-64 - H.P. *Sorbus aria*, with *Quercus pubescens*, *Corylus* and *Alnus cordata*: 1 ♂ dry.

Typhl. 649 - PIEDMONT - Costigliole (AT) - 5-IX-82 - H.P. *Vitis vinifera*: 1 ♂ dry.

Typhl. 940 - PIEDMONT - Vezza d'Alba (CN) - 3-VIII-88 - H.P. grapevine (vineyards on the hill, near the village): ? 1 ♂ dry.

PLATYMETOPIUS rostratus (Herrich-Schäffer, 1834)

Typhl. 834 - PIEDMONT - Predosa (AL) - 15-IX-85 - H.P. Moscato: vineyard near the house with plants of the heading (near the road) with Leafroll: phot. for FD or ?Bois Noir on 21-VII-85 - (Cfr. Typhl. 788) - Now: normal lignification (except 2 green proximal suckers) - Leafroll on the West side (with *Empoasca* and vein browning) - Normal leaves on the East side - Egg counting by dr Arnò - 1 ♂ 1 ♀ dry.

PLATYMETOPIUS undatus (De Geer, 1773)

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 18-VII-86: 1 ♀.

PROCEPS acicularis Mulsant & Rey, 1855

Typhl. 489 - SARDINIA - Mount Corrasi (NU) - m 1,200-1,300 - 30-V-64 - H.P. *Teucrium flavum* v *glaucum* (Sardinia and Corsica): 1 ♂ dry - H.P. *Teucrium marum*: 1 ♀ dry.

Typhl. 523 - JUGOSLAVIJA - Split - Svilaja (slope of Otišić) - m 800-1,000 - 3-IX-64 -

H.P. *Satureja montana* (according to Ariello: *S. graeca* v *consentina*): ? 1 ♂ dry.

Psammotettix spp.

- Typhl. 512 - ABRUZZO - Campo Imperatore (AQ) - m 2,200 ~ - (Close to the hotel) - 16-VIII-64 - H.P. *Poa alpina*, *Festuca elatior*, *Dactylis glomerata*: 6 ♂ ♂ 3 ♀ ♀ dry - (Cfr. Typhl. 518).
- Typhl. 518 - ABRUZZO - Gran Sasso - Campo Imperatore (AQ) - (Slope East of the Astronomic Observatory) - m 2,200 - 26-VIII-64 - H.P. *Sesleria tenuifolia*, *Festuca ovina*, *Avena pubescens* (in the Botanical Garden): 1 ♂ dry - (Cfr. Typhl. 512).
- Typhl. 574 - PIEDMONT - San Giorio (TO) - (Dora Riparia Valley) - 16-V-68 - Along the stream Dora Riparia - H.P. *Trifolium repens* (on the bed of the stream Dora Riparia): 1 ♂ 2 ♀ ♀ (presence of 4th and 5th instar nymphs not prepared). Phot. 19,530: ♀.
- Typhl. 722 - LOMBARDY - Livigno (SO) - (m 2,200, near Forcola di Livigno pass) - 31-VIII-84 - H.P. *Thymus serpyllum*, *Vaccinium myrtillus* (upright), Gramineae (no trees - Near a snowfield!!): ♂ ♂ ♀ ♀ dry + nymphs.
- Typhl. 728 - PIEDMONT - Carignano (TO) - (Experimental Centre of the Faculty of Agriculture) - 15-IX-84 - H.P. *Zea mays* - (Cfr. Typhl. 712 and 732) - Delayed spring sowing, plants still very luxuriant, no aphids, abundance of *T. urticae* and its natural enemies - *Stethorus punctillum*, larvae and pupae; anthocorids, nymphs and adults; coniopterygids, cocoons with pupae; spiders - 1 ♀.
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - (Cfr. Typhl. 728, 732) - H.P. *Triticum aestivum* (*vulgare*) 10 cm tall (next to the maize field): 1 ♀ - H.P. plot of *Trifolium pratense*: 1 ♀.
- Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Serramanna (VS) - 12-VII-83: 1 ♀ - 19-VII-83: 1 ♀.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 18-VII-86: 2 ♀ ♀.
- Typhl. 889 - Auchenorrhyncha sent by prof. V. Girolami collected at Este (PD) on potato on 24-VII-86: 1 ♀.
- Typhl. 933 - TRENTINO-ALTO ADIGE - Pergolese-Sarche (TN) - 29-VII-88 - H.P. grapevine (regrazed vineyard: Gramineae): ? 1 ♀ (dr Alma).

PSAMMOTETTIX alienus (Dahlbom, 1850)

- Typhl. 579 - LOMBARDY - Pavia - (Santa Maria della Versa) - Determination for prof. G. Domenichini, reference no. 3,825 of 29-XII-76; see joint copy - 25-VIII-76: ? 1 ♂.
- Typhl. 727 - LATIUM - Rome - Auchenorrhyncha collected by prof. B. Cavalcaselle - 7-VII-84 - Carovilli (IS) - H.P. *Eucalyptus* (nursery): 1 ♂ 2 ♀ ♀.
- Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Terralba (OR) - 8-VI-83: 1 ♂ - 21-VI-83: 1 ♂ - 12-VII-83: 1 ♀.
- Typhl. 842 - EMILIA-ROMAGNA - Rhynchota (Heteroptera and Homoptera) collected at Tebano (RA) - (leg. Castellari) - 10-VII-85 - H.P. *Vitis vinifera* cv Caveccia: 1 ♀ dryinidized.

- Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 24-VII-85: 4 ♀ ♀ - 12-VIII-85: 1 ♀ .
- Typhl. 844 - Auchenorrhyncha collected in October 1985 near Faenza (RA) by dr Belardi - Sample no. 2: 3♂ ♂ + 1 nymph.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 25-VII-86: 1♂ 2 ♀ ♀ .
- Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - (Capriata's vineyard, near *Q. cerris*) - H.P. *Convolvulus arvensis* (near grapevine): 2♂ ♂ 2 ♀ ♀ .
- Typhl. 906 - PIEDMONT - Predosa (AL) - (Farm Mussa) - 2-VIII-87 - H.P. *Zea mays*: 1♂ .
- Typhl. 910 - GREECE - Thessaloniki - Mihaniona (Fishermen village) - 10-X-87 - H.P. *Cynodon dactylon* (under *Malus* in a cotton field): 3♂ ♂ (dr Alma).

PSAMMOTETTIX cephalotes (Herrich-Schäffer, 1834)

- Typhl. 502 - PIEDMONT - Colle delle Finestre (TO) - (Slope of Susa) - m 1,300 - 24-VII-64 - H.P. *Helianthemum vulgare* and Gramineae (meadow): 3♂ ♂ 2 ♀ ♀ dry.

PSAMMOTETTIX confinis (Dahlbom, 1850)

- Typhl. 568 - PIEDMONT - Vercelli - 8-IX-66 - (Ricefields and neighbouring wastelands) - H.P. Gramineae: ? 1♂ 3 ♀ ♀ dry.
- Typhl. 743 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Convolvulus arvensis*, *Plantago lanceolata*, Gramineae (in grapevine rows): 2♂ ♂ 1 ♀ not prepared.
- Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 21-VII-86: 3♂ ♂ .

Psammotettix striatus (Linnaeus, 1758)

- Typhl. 669 - VENETIA - Leg. dr Maurizio Paoletti - S. Stino (Prà Salezza, farm Piva) (VE) - 10-XI-83 - H.P. *Hordeum vulgare*: 1 ♀ - "Boscata" farm Piva - 22-XI-83 - H.P. *Triticum vulgare* (many specimens collected underground, among the clods): 3♂ ♂ 1 ♀ .
- Typhl. 671 - PIEDMONT - Predosa (AL) - 23-IV-84 - H.P. *Triticum vulgare*: 2♂ ♂ 1 ♀ + 2 nymphs.
- Typhl. 673 bis - SARDINIA - Alghero (SS) - 20-VI-84 - Leg. Casetta (prof. Conti - Phyto-virology) - H.P. *Medicago sativa*: 6♂ ♂ 6 ♀ ♀ in Alma's collection).
- Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 23-VII-84: 3♂ ♂ 3 ♀ ♀ dry - 12-VII-84: 3♂ ♂ - 28-VI-84: 1♂ - 29-V-84: 3 ♀ ♀ + 1 nymph.
- Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. plots of *Dactylis glomerata* and *Trifolium repens*: 6 ♀ ♀ - H.P. heading with Gramineae and dicots bordering on the maize field: 2♂ ♂ 7 ♀ ♀ + 1 nymph - H.P. *Zea mays* (herbage between Carignano and La Loggia): 1♂ 1 ♀ .

Typhl. 744 - PIEDMONT - Piossasco (TO) - (Towards Stupinigi) - 14-X-84 - h 11 - On Gramineae near the pylon (*Agropyron*, *Panicum*, *Setaria*) besides on maize: 3♂♂ 1♀.

Typhl. 745 - PIEDMONT - Orbassano (TO) - (Bypass) - 14-X-84 - H.P. *Zea mays* herbage 40 cm tall (plants with 6-7 leaves, rather yellowish): 1♂ 1♀ not prepared.

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 25-VII-86: 1♂.

RECILIA coronifera (Marshall, 1866)

Typhl. 743 - PIEDMONT - Carignano (TO) - 10-X-84 - H.P. heading with Gramineae and dicots bordering on the maize field: 1♂ dry.

Typhl. 888 - EMILIA-ROMAGNA - Auchenorrhyncha collected in Emilia-Romagna in vineyards by prof. Canova - Tebano (RA) - 18-VII-86: 1♀ - 25-VII-86: 1♀.

RECILIA schmidtgeni (Wagner, 1939)

Typhl. 910 - GREECE - Thessaloniki - Mihaniona (Fishermen village) - 10-X-87 - H.P. *Cynodon dactylon* (under *Malus* in a cotton field): 1♂ (dr Alma).

REPTALUS panzeri (Löw, 1883)

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - (as *Oliarus*) - 24-VII-85: 1♀.

REPTALUS quinquecostatus (Dufour, 1833)

Typhl. 786 - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Refrancore) - 21-VII-85 - h 9,30 - H.P. grapevine cv Barbera - (as *Oliarus*): hailstorm from the North, unharmed on the South: 1♂ 1♀ (dr Alma).

Typhl. 899 - PIEDMONT - Predosa (AL) - 21-VI-87 - H.P. *Vitis vinifera* (Paolino's vineyard) - (as *Oliarus*): 2♂♂ 1♀ dry.

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. Capriata's vineyard (Moscatto) - (as *Oliarus*): 1♀.

RHYTIDODUS decimusquartus (Schränk, 1776)

Typhl. 954 - PIEDMONT - Neive (CN) - (Locality Gallina) - 30-VIII-88 - Vineyard of the Chair of Viticulture - H.P. grapevine "Chardonnay": 1♂ 1♀ (at 100 m there are poplar trees).

SCAPHOIDEUS titanus Ball, 1932

Typhl. 455 - FRANCE - Armagnac - (M. Paul Garvage, Urgosse, Nogaro, Gers) - 20-V-63 - H.P. grapevine Bacò 22A - (as *littoralis*) - (eggs laid mostly in the bark): phot. 11,397-11,412: sample with 6 eggs uncovered artificially (phot. 11,403): in alcohol (with an already differentiated embryo) - Length mm 1.5 - Sample with 2 eggs (with the embryo not yet formed): in alcohol - Length mm 2.3.

Typhl. 464 - LIGURIA - Isolabona (IM) - 15-VIII-63 - H.P. grapevine (*Vitis labrusca* cv

Isabella) - (as *littoralis*): 2♂♂ 1♀ dry. This insect is not common at all in the investigated locality where there is by the way above all *Vitis labrusca* cv Isabella. The 3 specimens were collected in as many vineyards (Guyot rows), in which the search lasted a long time, but in vain. No specimen was found in other localities (Pigna and Dolceacqua) of the same valley. On the other hand this species is poorly present also in Vence (FRANCE: cfr. Typhl. 465).

Typhl. 465 - FRANCE - Vence - (Nice) - 16-VIII-63 - H.P. grapevine (*Vitis vinifera* cv Malaga etc. - *Vitis labrusca* v Isabella) - (as *littoralis*): 1♂ 5♀♀ dry. The research was conducted in several vineyards, but only in some of them the insect was found. It is present in the most luxuriant foliages of grapevines grown with the Guyot and the pergola system. Numerical ratio between *S. littoralis* and *E. flavescens*: 1/50 approx. 1 adult found on *Solanum nigrum* under grapevine (pergola near a drystone wall). 2 exuviae of 5th instar nymphs on the lower leaf page of grapevine cv Malaga; 2 5th instar nymphs on leaves of grapevine cv Malaga.

Typhl. 468 - FRANCE - Urgosse (Gers) - 30-VIII-63 - (Domaine Garvage, Colavino Lorenzo) - H.P. *Vitis vinifera* - (as *littoralis*): ♂♂ ♀♀ not prepared. 5th instar nymphs and ovipositions.

Typhl. 604 bis - PIEDMONT - S. Giorio (TO) - 7-VI-81 - H.P. grapevine - (as *littoralis*): !!! 1 2nd instar neanid, 2 3rd instar nymphs.

Typhl. 606 - PIEDMONT - Predosa (AL) - 14-VI-81 - H.P. *Vitis*: 3 3rd instar nymphs - 26-VII-81: 5th instar nymphs.

Typhl. 613 - PIEDMONT - S. Giorio (TO) - 2-VIII-81 - (Travel with dr R. Whitcomb, Beltsville) - H.P. *Vitis vinifera* (heavily treated with pesticides and sulphur) - (as *littoralis*): 3♂♂ (2 dry), 2 nymphs - 1♂, 2 nymphs reared on *Vitis labrusca*.

Typhl. 639 - PIEDMONT - Predosa (AL) - 13-VI-82 - H.P. *Vitis vinifera*: juveniles of 1st, 2nd, 3rd instars.

Typhl. 639 bis - PIEDMONT - S. Giorio (TO) - 20-VI-82 - H.P. *Vitis vinifera*: 1st-4th instar juveniles (few).

Typhl. 640 - PIEDMONT - Predosa (AL) - 27-VI-82 - H.P. *Vitis vinifera*: 2nd-5th instar juveniles, many.

Typhl. 642 - PIEDMONT - Predosa (AL) - 11-VII-82 - H.P. *Vitis vinifera*: 2♂♂ 2♀♀ reared.

Typhl. 648 - PIEDMONT - Predosa (AL) - 29-VIII-82 - H.P. *Vitis vinifera*: 1♀ dry.

Typhl. 650 - LOMBARDY - Rovescala (PV) - 9 June - 21 September 1982 - (Leg. prof. Domenichini) - H.P. *Vitis vinifera*: 27 juveniles.

Typhl. 680 - PIEDMONT - S. Giorio ! (TO) - 14-VI-84 - H.P. *Vitis vinifera* (with dr Alma): 5 1st and 2nd instar juveniles on a couple of leaves.

Typhl. 687 - PIEDMONT - Predosa (AL) - 24-VI-84 - H.P. grapevine (beginning of blossoming!): 10 juveniles: 1 1st instar neanid, 9 2nd instars.

Typhl. 697 - PIEDMONT - Predosa (AL) - 8-VII-84 - H.P. *Vitis vinifera*: 7 nymphs (2 3rd instars, 5 4th instars, reared).

Typhl. 705 - PIEDMONT - Predosa (AL) - 22-VII-84 - H.P. *Vitis vinifera*; I collected by means of a sweepnet. Meaningful sampling on various plants of a homogeneous vineyard, in a grape growing area - 1 3rd instar nymph, 3 4th instars, 7 5th instars, 8♂♂ 1♀.

- Typhl. 713 - PIEDMONT - Predosa (AL) - 5-VIII-84 - H.P. *Vitis vinifera*: 4♂♂ 1♀ and 3 5th instar nymphs (2♂♂ 1♀ dry) - H.P. *Vitis labrusca* (pergola on a tank for the vineyard): 4♂♂ not prepared.
- Typhl. 725 - PIEDMONT - Predosa (AL) - 9-IX-84 - H.P. *Vitis vinifera*: 7♂♂ 1♀.
- Typhl. 734 - PIEDMONT - Predosa (AL) - 23-IX-84 - (Material used by Arnò) - H.P. *Vitis vinifera* (Paolino's vineyard): 5♂♂ 2♀♀.
- Typhl. 747 - JUGOSLAVIJA - Nova Gorica - (Summer 1984, beginning of August) - H.P. *Vitis vinifera*: 8♂♂ + 1 nymph dry. Auchenorrhyncha collection of the Institute. Leg. Gabrijel Seljak, graduated Agr. Eng.
- Typhl. 759 - PIEDMONT - Predosa (AL) - 9-VI-85 - (Cfr. Typhl. 764) - H.P. *Vitis vinifera*: 5 juveniles (1st-3rd instar).
- Typhl. 761 - PIEDMONT - Chianocco (TO) - 16-VI-85 - H.P. *Vitis*: 5 2nd and 3rd instar juveniles (reared by Arnò).
- Typhl. 762 - PIEDMONT - S. Giorio (TO) - 16-VI-85 - H.P. *Vitis vinifera*: 6 juveniles - Grapevines treated with insecticides.
- Typhl. 764 - PIEDMONT - (Cfr. Typhl. 759) - Predosa (AL) - 23-VI-85 - H.P. *Vitis vinifera*: 11 2nd and 4th instar juveniles (reared by Arnò).
- Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Vitis vinifera*: 8 juveniles (5 2nd, 2 3rd, 1 4th instar, reared).
- Typhl. 769 - PIEDMONT - Predosa (AL) - 7-VII-85 - H.P. *Vitis vinifera*: 5 5th instar nymphs, 2 4th instars, 1 3rd instar, reared - phot. 5th instar nymph on grapevine.
- Typhl. 772 - VENETIA - Ponte di Barbarano (VI) - (I slept in the hotel S. Giorgio) - 10-VII-85 - h 8-9 - Vegetable garden near the hotel - H.P. *Vitis vinifera* cv Garganega (healthy): 1♂ - H.P. *Vitis labrusca* cv Isabella: 1♀
- Typhl. 773 - VENETIA - Ponte di Barbarano (VI) - 2-3 Km more southwards towards Rovolon (PD) - 10-VII-85 - h 9-10 - H.P. *Vitis vinifera* - Barbera, with leaf indentation (phot.) vineyard with approx. 400 plants; 5 plants with rolled and reddened leaves (?FD). Phot. ground infested by *Amaranthus*: 4♂♂ 2♀♀ + nymphs (1 3rd, 1 4th, 3 5th instars).
- Typhl. 774 - VENETIA - Rovolon (PD) - 10-VII-85 - h 10,20 - Vineyard among non rural houses, along the road - H.P. ?Pinot bianco - 30% ~ with symptoms (FD?): 2♂♂ not prepared - phot. grapevines with symptoms - Another vineyard on the hill visited with the guidance of the young owner; no cultivars with FD symptoms.
- Typhl. 775 - VENETIA - Luvigliano (PD) - 10-VII-85 - (Villa del Vescovo) - h 11,00-12,30 - H.P. grapevine, various cultivars, including Moscato, all without FD symptoms: No *Scaphoideus titanus*.
- Typhl. 781 - VENETIA - Giavera del Montello (TV) - 11-VII-85 - h 9,30 - H.P. grapevine (?Merlot) at the foot of the hill, in a meadow - phot. symptoms of ?*Empoasca* - 4 juveniles, 2 3rd and 2 4th instars.
- Typhl. 783 - PIEDMONT - Chianocco (TO) - m 700 - 18-VII-85 - H.P. grapevine (?Barbera) - phot. upper vineyard (m 750) - FD symptoms - 5 juveniles (1 3rd and 4 4th instars) - Lower vineyard (fountain: m 700) - phot. reddening caused by *Empoasca*: 11♀♀ and 6 juveniles (1 3rd, 3 4th, 2 5th instars).
- Typhl. 785 - PIEDMONT - Caluso (TO) - (Briamara) - 20-VII-85 - h 19-20 - H.P. grapevine

- Erbaluce - Pergola (Pelera) - I collected 2 canes with the first 8 leaves (2 proximal ones, small and the other 6 ones big) very thickened, very rolled downwards, green, rather wrinkled, crumbly: presence of 1-4 juveniles per leaf; oviposition traces: 1-4 per leaf: hatched eggs and eggs with an emergence hole of *Anagrus*. Apical leaves and leaves of normal suckers - phot. veins in the field and in the laboratory - Juveniles and adults + exuviae: 2♂♂ 1♀ and 1 5th instar nymph.
- Typhl. 786 - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Refrancore) - 21-VII-85 - h 9,30 - H.P. grapevine cv Barbera: hailstorm from the North, unharmed on the South: 2♂♂, 1 5th instar nymph not prepared - Ploughing, no weeds.
- Typhl. 786 bis - PIEDMONT - Quarto d'Asti (AT) - (Inland towards Arrobio) - h 10-10,30 - 21-VII-85 - H.P. *Vitis labrusca* (pergola): 3♂♂ 1♀ - H.P. *Vitis vinifera* (Barbera): 13♂♂ 1♀ + 1 5th instar nymph not prepared.
- Typhl. 788 - PIEDMONT - Predosa (AL) - 21-VII-85 - h 15-18 - H.P. *Vitis vinifera* cv Barbera (Paolino's vineyard) - Leaf indentation -Virus leafroll, rolling and reddening by *Empoasca*: 1♂ - *Convolvulus arvensis* in the row and interrows plus *Cirsium* - H.P. *Vitis vinifera*, Capriata's vineyard - Barbera: like above - Moscato: Virus leafroll - Bois Noir - Rolling by *Empoasca*: 2♂♂ 2♀♀ and 1 5th instar nymph.
- Typhl. 791 - PIEDMONT - Candia Canavese (TO) - 24-VII-85 - h 9,30 - Gnavi's vineyard (dr C. Gnavi's son) - H.P. grapevine, Pinot grigio (4 rows; phot. plants of the first row: only one plant with FD symptoms and *Empoasca*; much more obvious symptoms in Erbaluce than in Pinot grigio) - ?Pinot bianco (some plants!!). Young vineyard of Erbaluce in rows, well cultivated but regrazed (? Piedmontese giornata, surface measure unit, editor's note): 1♂ (reared by Arnò) - H.P. *Vitis labrusca* (pergola): 2♂♂ (Arnò).
- Typhl. 792 - PIEDMONT - Candia Canavese (TO) - (Pachier) - 24-VII-85 - H.P. grapevine Erbaluce (4 Piedmontese giornate, surface measure, editor's note) rows, regrazed (above all bermuda grass): 1♀ (on bermuda grass!) - (reared by Arnò).
- Typhl. 793 - PIEDMONT - Caluso (TO) - (Gnavi Corrado) - 24-VII-85 - (road to Maz-zè: S. Cristoforo) - H.P. grapevine Erbaluce (1 Piedmontese giornata, surface measure unit, editor's note) - Pergola, ploughed ground: 1♂ + exuviae not prepared - phot. proximal leaves thickened, rolled, with vein browning.
- Typhl. 811 bis - PIEDMONT - Predosa (AL) - 15-VIII-85 - H.P. grapevine (Paolino's vineyard) - Virus leafroll gradually more obvious, with reddening, rolling in Barbera - Capriata's vineyard: Barbera with Virus leafroll less obvious - phot. plant with symptoms initially caused by *Empoasca*, but now attributable to Virus leafroll - Moscato (near the house) with remarkable Virus leafroll in all the plants. On the most developed and rolled leaves there are many *E. flavescens* adults and juveniles - phot. vineyard and plants like in Typhl. 788 - phot. plant with symptoms of Bois Noir and Virus leafroll. Material collected: 1♂ 2♀♀ not prepared.
- Typhl. 829 - PIEDMONT - Predosa (AL) - 1-IX-85 - H.P. grapevine (Capriata's vineyard): 2♀♀.
- Typhl. 834 - PIEDMONT - Predosa (AL) - 15-IX-85 - H.P. Moscato: vineyard near the house with plants of the heading (near the road) with Leafroll: phot. for FD or ?Bois Noir on 21-VII-85 - (Cfr. Typhl. 788) - Now: normal lignification (except 2 green proximal suckers) - Leafroll on the West side (with *Empoasca* and vein browning)

- Normal leaves on the East side: 2 ♀ ♀ .

Typhl. 838 - PIEDMONT - Predosa (AL) - 29-IX-85 - H.P. grapevine: 1 ♀ dead.

Typhl. 851 - PIEDMONT - Predosa (AL) - 15-VIII-86 - H.P. *Vitis* (Capriata's vineyard cv Moscato): 1 ♀ not prepared - H.P. grapevine (Paolino's vineyard): 4 ♂ ♂ 4 ♀ ♀ .

Typhl. 857 ter - PIEDMONT - Predosa (AL) - 21-IX-86 - H.P. *Vitis vinifera* (Capriata's vineyard and Paolino): 1 ♀ not prepared.

Typhl. 861 - FRIULI-VENEZIA GIULIA - Cividale (UD) - 25-IX-86 - H.P. *Vitis* (with no regrazing); Pinot bianco with symptoms of BN or FD? - Camembert (black) without symptoms - Exuviae.

Typhl. 863 - FRIULI-VENEZIA GIULIA - Prepotto, towards Albana (UD) - 25-IX-86 - H.P. *Vitis*, Pinot bianco (*Phylloxera*): exuviae.

Typhl. 864 - FRIULI-VENEZIA GIULIA - Podresca (UD) - 25-IX-86 - Leg. Arzone, Alma, Arnò - H.P. *Vitis* (?Pinot, few symptoms): exuviae.

Typhl. 898 - PIEDMONT - Predosa (AL) - 7-VI-87 - H.P. *Vitis vinifera* (Predosa vineyard): collecting convenient on the few plants (2-3 per row + luxuriant) - (I collected by means of a glass tube; ploughed ground; wastelands nearby): 16 1st instar neanids, 5 2nd instars, reared - H.P. Paolino's vineyard, near Capriata's vineyard: 24 neanids reared (10 1st instars, 14 2nd instars) - (only on leaves of upright canes).

Typhl. 899 - PIEDMONT - Predosa (AL) - 21-VI-87 - H.P. *Vitis vinifera* (Paolino's vineyard): 2 3rd instar nymphs reared. 2nd, 3rd instar nymphs here and there, above all on leaves near the ground.

Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - (Capriata's vineyard, near *Q. cerris*) - H.P. *Inula viscosa* (near grapevine): 1 3rd instar nymph.

Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. grapevine (Paolino's vineyard): 2 ♂ ♂ - Capriata's vineyard (near a wasteland): 1 ♀ - Paolino's vineyard-Capriata (near *Prunus*): 1 ♂, 1 5th instar nymph.

Typhl. 905 - PIEDMONT - Strambino (TO) - 19-VII-87 - (Leg. dr Alma) - H.P. grapevine: 5 2nd instar neanids, 2 3rd instar nymphs dryinidized!! (reared).

Typhl. 917 - AOSTA VALLEY - Nus (AO) - m 700 - 30-VI-88 - H.P. grapevine: *S. titanus* not found.

Typhl. 919 - AOSTA VALLEY - Aosta - St. Pierre - Torrette m 900 - 30-VI-88 - H.P. grapevine (in bloom, regrazed vineyard): *S. titanus* not found.

Typhl. 920 - AOSTA VALLEY - Aosta - Morgez - Lavancher - m 1,000 - 30-VI-88 - H.P. grapevine (gazebo near a *Pinus sylvestris*) - *S. titanus* not found.

Typhl. 921 - PIEDMONT - Carema (TO) - 30-VI-88 - H.P. grapevine (along the road) - *S. titanus* not found.

Typhl. 923 - PIEDMONT - I.T.A. Alba (CN) - 26-VII-88 - H.P. grapevine Chardonnay - *S. titanus* missing.

Typhl. 924 PIEDMONT - Vezza d'Alba (CN) - 26-VII-88 - H.P. grapevine (locality Borbore): 3 ♂ ♂ 3 ♀ ♀ + 4th instar nymph and 1 5th instar, not prepared.

Typhl. 926 - PIEDMONT - Perosa Argentina (TO) - m 700 - 27-VII-88 - H.P. grapevine (leaf rolling and vein browning): missing.

Typhl. 928 - FRIULI-VENEZIA GIULIA - Codroipo (UD) - 29-VII-88 - H.P. grapevine (next to bean) - Regrazed vineyard with little *Convolvulus*: no *S. titanus*.

- Typhl. 932 - TRENTINO-ALTO ADIGE - Vezzano (TN) - 29-VII-88 - H.P. grapevine (regrazed vineyard with *Glechoma*, Gramineae, umbellifers). No FD symptoms - *S. titanus* missing.
- Typhl. 934 - LOMBARDY - Nuvolento (BS) - 30-VII-88 - H.P. grapevine (regrazed vineyard): *S. titanus* missing - FD symptoms missing.
- Typhl. 936 - EMILIA-ROMAGNA - Caorso (PC) - 30-VII-88 - H.P. grapevine, sparse rows, regrazed (*Convolvulus*, nettles, *Daucus*, Gramineae) - Few *S. titanus* - FD symptoms missing.
- Typhl. 937 - LOMBARDY - Rovescala (PV) - 30-VII-88 - H.P. grapevine (Virus leafroll symptoms): 2♂♂ 4♀♀ and 2 nymphs not prepared - Hamlet Cànova - H.P. grapevine (Bonarda = Croatina) - Virus leafroll symptoms with *S. titanus* exuviae, grapevines altogether nice, many *Scaphoideus* and *Empoasca*.
- Typhl. 938 - PIEDMONT - I.T.A. Alba (CN) - 3-VIII-88 - H.P. *Vitis* Chardonnay (luxuriant and apparently uniform vineyard) - FD symptoms in leaves, canes and grapes, altogether poorly obvious - Vases of indicator plants with the turf dug and in part fallen onto the ground: broad bean plantlets ruined (phot.) - Ground regrazed. After chemical herbicide treatments there are many shoots of *Convolvulus arvensis* and *Cynodon dactylon* in the mixed vineyard - *S. titanus* missing.
- Typhl. 939 - PIEDMONT - Barbaresco (CN) - 3-VIII-88 - Farm La Spinona - Berutti Pietro - H.P. grapevine Chardonnay (treatments) - Very few blight traces, in spite of the favourable environmental conditions - Vineyard particularly luxuriant in the rows near the road: FD symptoms poorly obvious besides being masked by the thick vegetation. In the rows of the intermediate and upper parts the symptoms are remarkable and frequent (~1 plant on 10); they had not been seen before. Presence of 3 plantlets with symptoms also in 1 neighbouring plot with 1 year old grapevines: 1♂ poorly representative because of treatments against *Lobesia*.
- Typhl. 941 - PIEDMONT - Chieri (TO) - (Istituto Agrario Bonafous) - 8-VIII-88 - Vidano, Arzone, Arnò, Porporato, Falco - H.P. grapevine - Remarkable symptoms in Erbaluce, Luglienga and Moscato (marginal burning) - Less heavy symptoms in black grape cultivars (Barbera, Freisa). Heavy infestations due above all to the transformation of the rows into a kind of pergola, for the excess of vegetation and no green pruning - *S. titanus*: presence of exuviae but not of nymphs and adults - Young Chardonnay grapevines: lack of symptoms referable to FD.
- Typhl. 943 - PIEDMONT - Alba (CN) - (I.T.A.) - 8-VIII-88 - H.P. grapevine (phot. Chardonnay with FD + control): 5th instar exuviae on yellow leaves like those of Codroipo. Presence of honeydew! and adults (not found before, this year).
- Typhl. 945 - PIEDMONT - Candia Canavese (TO) - 10-VIII-88 - H.P. grapevine (Vincenzo Gnavi's vineyard). Checked in 1986/87 for Pinot bianco and Erbaluce with FD symptoms. Pergola, now (1-2 years ago, Guyot). Neglected, because of a hailstorm one month ago. Regrazed, affected by blight, infested by *Empoasca* and *Scaphoideus*.
- Typhl. 946 - PIEDMONT - Caluso (TO) - (road of Mazzè) - 10-VIII-88 - H.P. grapevine Erbaluce (in observation since 1986 for FD) - Leaf damage by a hailstorm of 1 month ago - Remarkable Leaf rolling above all in proximal leaves - *S. titanus* not present neither as exuviae: treatments!

- Typhl. 947 - PIEDMONT - Romano Canavese (TO) - 10-VIII-88 - Dr Alma's vineyard (grapevine "Erbaluce" with remarkable leaf rolling) - *S. titanus* frequent with many exuviae, even 6 5th instars on a same leaf. Leaf, grape, and cane damage caused by a strong hailstorm 1 month ago. Young grapevines in an experimental vineyard of "Chardonnay" and "Erbaluce" without symptoms and rather depressed by regrazing - Indicator plants (broad bean and periwinkle) normal, without symptoms.
- Typhl. 958 - PIEDMONT - Fara (NO) - 15-IX-88 - H.P. grapevine (Erbaluce of 20-25 years of age): Leafroll + ?FD. Common (leaves with 10-12 individuals). Symptoms. Chemical herbicide treatments. No *Scaphoideus*.

SELENOCEPHALUS obsoletus (Germar, 1817)

- Typhl. 900 - PIEDMONT - Predosa (AL) - 5-VII-87 - (Det. Alma) - H.P. Capriata's vineyard, near *Q. cerris*: 1 ♂.

SETAPIUS cuspidatus (Fieber, 1876)

- Typhl. 767 - PIEDMONT - Piverone (TO) - 30-VI-85 - (Leg. Vidano-Arzone) - H.P. *Convolvulus arvensis*, *Plantago lanceolata*, Gramineae (in grapevine rows) - (as *Oliarus*): 5 ♂ ♂ 1 ♀ (dr Alma).

STICTOCEPHALA bisonia Kopp & Yonke, 1977

- Typhl. 602 bis - PIEDMONT - Moncalvo (AT) - 5-X-80 - H.P. grapevine: ♂ ♂ ♀ ♀. Caulinar and foliar alterations.
- Typhl. 638 - PIEDMONT - Predosa (AL) - 4-X-81 - H.P. grapevine - *Stictocephala bisonia*; canes with caulinar and foliar alterations (phot.).
- Typhl. 779 - VENETIA - Maserada sul Piave (TV) - 10-VII-85 - h 19,20 - H.P. *Populus euroamericana* - Poplar plantation with two trees next to an alfalfa plot showing two-year-old basal suckers - *Stictocephala bisonia* - Few oviposition scars at the base of the two-year-old branches. Presence of emergence holes of *Polynema striaticorne*. Presence of 7 eggs, all with an eopupa of *P. striaticorne* still light in colour. Presence of three egg-layings with 3-4 black eggs (*P. striaticorne* adults close to emergence - reared).
- Typhl. 859 - VENETIA - Maserada sul Piave (TV) - 24-IX-86 - Az. Tonini (leg. Arzone, Alma, Arnò) - H.P. *Salix* (shrubs): ovipositions, with *Polynema striaticorne*.
- Typhl. 863 - FRIULI-VENEZIA GIULIA - Prepotto, towards Albana (UD) - 25-IX-86 - H.P. *Salix*: eggs with *Polynema striaticorne*.
- Typhl. 866 - FRIULI-VENEZIA GIULIA - Cormons, hamlet Brazzano (GO) - 25-IX-86 - H.P. *Morus*: ovipositions with *Polynema striaticorne*.
- Typhl. 867 bis - FRIULI-VENEZIA GIULIA - Gradisca (GO) - 25-IX-86 - H.P. *Ulmus* (shrubs): ovipositions with *Polynema striaticorne*.
- Typhl. 904 - PIEDMONT - Predosa (AL) - 19-VII-87 - H.P. Paolino's vineyard-Capriata (near *Prunus*): 1 ♂.
- Typhl. 965 - PIEDMONT - Villafalletto (CN) - (Farm Roncaglia, dr Mariano; via Cuneo

34) - 2-I-89 - H.P. apple tree: open ovipositions with *Polynema striaticorne*. Poorly represented in peach trees with protected ovipositions. Presence in *Castanea* too.

SYNOPHROPSIS lauri (Horváth, 1897)

Typhl. 949 - LOMBARDY - Villa Olmo (CO) - 19-VIII-88 - H.P. *Ostrya* and *Carpinus* (the specimens of the various species collected on the low part of the canopy of a same tree): 1♂ not prepared (from nearby laurel).

Typhl. 951 - LOMBARDY - Tremezzo (CO) - (Villa Carlotta) - 20-VIII-88 - H.P. *Rhododendron* spp.: 2♂♂ 2♀♀ dry.

TETTIGOMETRA sp.

Typhl. 673 bis - SARDINIA - Alghero (SS) - 20-VI-84 - Leg. Casetta (prof. Conti - Phyto-virology) - H.P. *Medicago sativa*: damaged specimens.

TETTIGOMETRA obliqua (Panzer, 1799)

Typhl. 753 - SARDINIA - Homoptera collected by means of chromotropic traps in tomato cultivations in Sardinia - Terralba (OR) - 28-VI-83: 1♂ - Serramanna (VS) - 28-VI-83: 1♂ - 12-VII-83: 1♂.

THAMNOTETTIX sp.

Typhl. 939 - PIEDMONT - Barbaresco (CN) - 3-VIII-88 - Farm La Spinona - Berutti Pietro - H.P. *Panicum crus-galli* (isolated tufts): 1♀.

THAMNOTETTIX taeniatifrons (Kirschbaum, 1868)

Typhl. 463 - LIGURIA - Locality between Molini di Triora and Pigna (Colle di Langan) (IM) - 15-VIII-63 - H.P. *Quercus ilex*: 1♂ dry (phot. 11,762, 11,763). Green neanids and nymphs reared on holm oak.

THAMNOTETTIX zelleri (Kirschbaum, 1868)

Typhl. 726 - SICILY - Regaleali (PA) - Auchenorrhyncha collected in Sicily by prof. S. Barbagallo - 29-V-84: 2♂♂ 2♀♀ - 13-VI-84: 1♀ - 29-V-84: 1♂ 4♀♀.

Typhl. 843 - Auchenorrhyncha collected by means of a pooter at Sclafani Bagni (PA) - (Locality Regaleali) - H.P. herbaceous plants in a vineyard - 12-VIII-85: 1♂ 1♀.

Typhl. 848 - SARDINIA - Tharros (OR) - 3-V-85 - H.P. *Avena sterilis*, *Bromus tectorum*: 2♂♂ 1♀ (dr Alma).

Typhl. 577 - PIEDMONT - Tetti Grondana - Chieri (TO) - 21-IX-73 - Orchard of Istituto Coltivazioni Arboree - H.P. *Corylus avellana*.

LIST OF CARLO VIDANO'S PAPERS
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ACRONYMS

CH = Switzerland

cv = cultivar

det. = determined by

eng. = engineer

gr = group

GR = Grisons

h = hour

H.P. = host plant

leg. = collected by

loc. = locality

mt. = mountain

mts. = mountains

N.N. = not named

phot. = photograph or photographed

Provinces: AG (Agrigento), AL (Alessandria), AO (Aosta), AQ (L'Aquila), AT (Asti), AV (Avellino), BI (Biella), BS (Brescia), BZ (Bolzano), CA (Cagliari), CE (Caserta), CI (Carbonia-Iglesias), CL (Caltanissetta), CN (Cuneo), CO (Como), CS (Cosenza), CT (Catania), CZ (Catanzaro), FC (Forlì-Cesena), FE (Ferrara), FG (Foggia), GE (Genoa), GO (Gorizia), GR (Grosseto), IM (Imperia), LI (Leghorn), LO (Lodi), LT (Latina), MN (Mantua), MT (Matera), NA (Naples), NU (Nuoro), OG (Ogliastro), OR (Oristano), OT (Olbia-Tempio), PA (Palermo), PC (Piacenza), PD (Padua), PG (Perugia), PN (Pordenone), PU (Pesaro-Urbino), PT (Pistoia), PV (Pavia), RA (Ravenna), RI (Rieti), RN (Rimini), SA (Salerno), SP (La Spezia), SR (Siracusa), SS (Sassari), SV (Savona), TA (Taranto), TN (Trento), TO (Turin), TP (Trapani), TS (Trieste), TV (Treviso), UD (Udine), VA (Varese), VB (Verbano-Cusio-Ossola), VC (Vercelli), VE (Venice), VI (Vicenza), VS (Medio Campidano), VT (Viterbo)

RSM = Republic of San Marino

S. or St. = Saint

TI = Tessin

v or var = variety

INDEX OF SOME OF THE PERSONS MENTIONED
BY CARLO VIDANO IN HIS PROTOCOLS

- ALMA Alberto: Carlo Vidano's pupil, graduated in 1982 and then technician (1983), researcher (1990) and professor (2001) in the Institute of agricultural Entomology and Apiculture of the University of Turin.
- ARIELLO Giuseppe: botanist, curator of the herbarium of the Institute and Botanical Garden of the University of Turin, who classified the plants Carlo Vidano gave him.
- ARNÒ Claudio: researcher who arrived in the Institute of agricultural Entomology and Apiculture of the University of Turin in 1984 and collaborated with Carlo Vidano; later he became a specialist of arachnology.
- ARZONE Alessandrina: professoress of Phytomyzology in the Institute of agricultural Entomology and Apiculture of the University of Turin, collaborating with Carlo Vidano since 1952. After his death she held his chair of agricultural Entomology.
- BAGGIOLINI Mario: director of the Federal station of agricultural experiments of Changins (Lausanne) in Switzerland.
- BARBAGALLO Sebastiano: professor of agricultural Entomology in the Institute of Agricultural Entomology of the University of Catania.
- BASOCCU Luigi: professor of Horticulture and Floriculture of the Faculty of Agriculture in Turin.
- BELLARDI Maria Grazia: researcher of the Institute of Plant Pathology of the University of Bologna.
- BERRUTI Pietro: owner of the farm La Spinona in Barbaresco (CN) with a lot of vineyards of different cultivars.
- BIANCO Pietro: Alberto Alma's maternal grandfather, Carlo Vidano's neighbour.
- BONOMI Lido: technician in the Institute of agricultural Entomology and Apiculture of Turin.
- BOSCO Domenico: Carlo Vidano's pupil, graduated in 1988 and then researcher (1994) in the Institute of agricultural Entomology and Apiculture of Turin.
- BRAIA: nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.
- BUA Gaetano: director of the Observatory of Plant Diseases of Bolzano.
- BUGLIONE: surname of an amateur entomologist, Carlo Vidano's friend.
- CANDIA: surname of one of the landowners neighbouring on Carlo Vidano's father's properties.
- CANOVA Antonio: professor of plant pathology in the Institute of Plant Pathology of the University of Bologna.
- CASTELLARI Pier Luigi: assistant professor of agricultural entomology in the Institute of agricultural Entomology of the University of Bologna.
- CAVALCASELLE Benedetto: professor in the Istituto Piante da Legno of the Agricultural Ministry in Rome.
- CERUTI Arturo: professor of systematic botany in the Faculty of Mathematics, Physics and Natural Sciences and director of the Institute and Botanical Garden of the University of Turin.

CINTO: nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.

CLARIDGE Michael: professor of entomology in the Department of Zoology of the University College of Cardiff.

COBBEN René: professor of entomology in the Laboratory of Entomology of the Agricultural University of Wageningen.

CONSIGLIO Carlo: professor in the Zoological Institute of the University of Rome.

CONTI Maurizio: Carlo Vidano's pupil and then friend. Virologist, researcher and then director of the Centre of Phytovirology of the National Research Council (CNR) in Turin.

COUVERT Luciano: artist who worked with the Institute of agricultural Entomology and Apiculture of the University of Turin.

CURRADO Italo: researcher and then professor of Forest Entomology in the Institute of agricultural Entomology and Apiculture of the University of Turin.

DAL VESCO Giovanna: professor of systematic botany in the Institute and Botanical Garden of the University of Turin.

DEANDREA: surname of one of the landowners neighbouring on Carlo Vidano's father's properties.

DEMICHELIS Stefano: Carlo Vidano's pupil, graduated in 1987 and technician in the Institute of agricultural Entomology and Apiculture of Turin.

DLABOLA Jiří: Czechoslovakian auchenorrhynologist, working in the Entomological Laboratory of the Natural History Museum of Prague, to whom Carlo Vidano sent specimens in exchange.

DOMENICHINI Giorgio: professor of agricultural entomology of the Catholic University of the Sacred Heart in Milan and then in Piacenza.

D'URSO Vera: Italian auchenorrhynologist, graduated in 1975, associate professor of Entomology in 1994 in the Department of Animal Biology in Catania, who started studying the Auchenorrhyncha with Carlo Vidano's help.

DWORAKOWSKA Irena: Polish auchenorrhynologist to whom Carlo Vidano sent specimens in exchange.

FACCIOLI Gianni: technician of the Institute of agricultural Entomology of the University of Bologna.

FALCO Fortunato: technician in the Institute of agricultural Entomology and Apiculture of Turin.

GARINO (Maresciallo): surname of a retired officer of Carabinieri, one of the landowners neighbouring on Carlo Vidano's father's properties.

GIROLAMI Vincenzo: professor of agricultural entomology in the Institute of Agricultural Entomology of the University of Padua.

DELLA GIUSTINA William: French auchenorrhynologist, entomologist researcher of the Zoological Station of INRA in Versailles, to whom Carlo Vidano sent specimens in exchange.

GNAVI Corrado: one of the landowners neighbouring on Carlo Vidano's father's properties.

GNAVI Vincenzo: Corrado Gnavi's son.

HARPAZ Isaac: Israeli auchenorrhynchologist, working in the Department of Entomology of the Hebrew University of Jerusalem Rehovot.

HARTIG Federico: South Tirolese count and amateur entomologist, who did a lot of collecting in Italy.

IPPOLITO Salvatrice: Italian entomologist, researcher of the Dept. of Animal Biology in Catania, specialized in Heteroptera.

JERVIS Mark A.: British entomologist specialist of parasitic wasps, working in the Department of Zoology of the University College in Cardiff, to whom Carlo Vidano send some parasitoids to classify.

KNIGHT William J.: U.S. entomologist, working in the British Museum (Natural History), to whom Carlo Vidano sent specimens in exchange.

LINDBERG Håkan: Finnish hemipterologist, working in the Zoological Museum of the University of Helsingfors, to whom Carlo Vidano sent specimens in exchange.

LINNAVUORI Rauno: Finnish auchenorrhynchologist, working in the Zoological Museum of the University of Helsingfors, to whom Carlo Vidano sent specimens in exchange.

LOMBARDO Francesco: Italian entomologist specialist of mantids, associate professor in the Dept. of Animal Biology in Catania.

MARTELLI Minos: professor of agricultural entomology, director of the Institute of Agricultural Entomology of the University of Milan.

MASUTTI Luigi: professor of forest entomology, director of the Institute of Agricultural Entomology of the University of Padua.

MAZZOGLIO Peter John: Carlo Vidano's pupil, graduated in 1989 and technician in the Institute of agricultural Entomology and Apiculture of Turin since 1984.

MEOTTO Francesco: researcher of CNR in the Institute of agricultural Entomology and Apiculture of Turin, and then in the Botanical Gardens of Turin.

MONDINO Giordano: professor of silviculture of the Faculty of Agriculture of the University of Turin.

MONTI Barbisin: surname and nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.

MONTI Not: surname and nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.

MONTI Pedrin: surname and nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.

NAVONE Paolo: Carlo Vidano's pupil, graduated in 1982, Ph.D. in agricultural entomology in 1987.

OLMI Massimo: researcher in the Institute of agricultural Entomology and Apiculture of Turin and then professor of agricultural entomology in the Department of Plant Protection in the University of Viterbo.

OSSIANNILSSON Frej: Swedish zoologist and auchenorrhynchologist, professor of zoology in the University of Uppsala, to whom Carlo Vidano sent specimens in exchange, and the books by whom he used to classify the specimens collected. He was the beginner of bioacoustic research on Auchenorrhyncha.

OZINO Marletto Olga: professor of agricultural Microbiology in the Faculty of Agriculture of the University of Turin.

PAPEVIC: researcher of the Agricultural Institute of Titograd to whom Carlo Vidano gave some of the specimens collected there.

PASSERA Marcello: one of the landowners neighbouring on Carlo Vidano's father's properties.

PAVICEVIC Ljubo: researcher of the Agricultural Institute of Titograd in former Yugoslavia.

PELLIZZARI SCALTRITI Giuseppina: professor of agricultural entomology in the Institute of Agricultural Entomology of the University of Padua, specialist in acarology.

PEYRONEL Bruno: professor of botany in the Institute and Botanical Garden of the University of Turin.

PICCO Giordano: one of the landowners neighbouring on Carlo Vidano's father's properties.

PICCO Giovanni: one of the landowners neighbouring on Carlo Vidano's father's properties.

PICCO Isidoro: one of the landowners neighbouring on Carlo Vidano's father's properties.

PIRANDELLO Luigi: famous Italian writer and playwright of the first half of the 20th century.

PLAZIO: surname of one of the landowners neighbouring on Carlo Vidano's father's properties.

PODIO Guglielmo: one of the landowners neighbouring on Carlo Vidano's father's properties.

PORPORATO Marco: technician of the Institute of agricultural Entomology and Apiculture of Turin and then researcher (2004).

PRIORE Rosa: professor of agricultural entomology of the Department of Agricultural Entomology and Zoology of the University of Portici (Naples).

PROTA Antonella: professor Romolo Prota's wife.

PROTA Romolo: professor of agricultural entomology and director of the Institute of Entomology of the University of Sassari.

RIBAUT Henri: French auchenorrhynchologist, honorary professor of the Faculty of Medicine of the University of Toulouse, whom Carlo Vidano met while preparing his university graduation thesis on *Stictocephala bisonia*, and the books by whom he used to classify the specimens collected.

ROLFO Alessandro: Alessandra Arzone's pupil, graduated in 1985.

RUBEN Abagian: grafter of Armenian origin living in Carlo Vidano's village.

RUFFO Sandro: professor of zoology in the University of Padua and director of the Museum of Natural History of Verona.

SALVETTI (don): priest and beekeeper of Rosone Canavese.

SALVETTI Carlo: one of the landowners neighbouring on Carlo Vidano's father's properties.

SALVETTI Pietro: one of the landowners neighbouring on Carlo Vidano's father's properties.

SAMPÒ Achille: technician of the National Research Council in the Institute of agricultural Entomology and Apiculture of the University of Turin.

SANTORO Roberto: Carlo Vidano's pupil, graduated in 1982.

SCAPINO: surname of one of the landowners neighbouring on Carlo Vidano's father's properties.

SCARAMOZZINO Pierluigi: entomologist of the Observatory of Plant Diseases of Regione Piemonte.

SELJAK Gabrijel: Slovene researcher of the Agriculture and Veterinary Service Nova Gorica (former Yugoslavia).

SERVADEI Antonio: professor of agricultural entomology of the Institute of Agricultural Entomology of the University of Padua, to whom Carlo Vidano sent specimens in exchange.

TAVELLA Luciana: graduated in 1985, Ph.D. in 1989 and then researcher in the Institute of agricultural Entomology and Apiculture of the University of Turin.

TULULENA: nickname of one of the landowners neighbouring on Carlo Vidano's father's properties.

VENTURI Filippo: professor of agricultural entomology, director of the Institute of Entomology of the University of Pisa.

VIDANO Giovanni: Carlo's father, owner of a farm, some fields, vineyards, and orchards in Caluso, where Carlo started his studies in entomology.

VIGGIANI Gennaro: researcher and then professor of agricultural Entomology in the Institute of Agricultural Entomology and Zoology of the University of Portici (Naples), specialist of parasitoids.

WAGNER Wilhelm: German entomologist and auchenorrhynologist, to whom Carlo Vidano sent specimens in exchange.

WHITCOMB Robert F.: U.S. entomologist, auchenorrhynologist, and microbiologist, working in the Entomology Research Division of the Agricultural Research Service of the U.S. Department of Agriculture of Beltsville, who discovered the genus *Spiroplasma*.

WILSON Michael: British auchenorrhynologist, working in the Department of Zoology of the University College of Cardiff.

YOUNG David Allan: U.S. auchenorrhynologist, working in the Department of Entomology of the North Carolina State University of Raleigh, to whom Carlo Vidano sent specimens to classify.

ZANGHERI Pietro: prof. Sergio Zangheri's father, a botanist and zoologist, who made a huge naturalistic collection, the Auchenorrhyncha of which were examined by Carlo Vidano.

ZANGHERI Sergio: professor of agricultural entomology in the Institute of Agricultural Entomology of the University of Padua.

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Carlo Vidano's knowledge in botany came from his university studies and from his personal passion. He always collected plant samples for a correct classification and asked for advice to the staff of the Botanic Garden of Turin. The books he usually used for his classifications were *Flora der Schweiz* and Italian botany books by Fiori, Dalla Fior, Marchesetti etc.

The plants listed may not be the real host plant of a certain Auchenorrhyncha species, but just the plant on which it was collected. Host plants may not be correct in the first Typhl., but following their chronology one may see Carlo Vidano's corrections and opinions.

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Chrysanthemum (= *Tanacetum*) ?*leucanthemum* (= *vulgare*): typhl. 377.
Chrysanthemum (= *Tanacetum*) *siculum*: typhl. 319, 796, 797.
Chrysanthemum (= *Tanacetum*) *vulgare*: see *Chrysanthemum* (= *Tanacetum*) *leucanthemum*.
Cichorium intybus: typhl. 383.
Cirsium sp.: typhl. 844.
Cirsium (= *Ptilostemon*) *afrum niveum*: typhl. 512.
Cirsium arvense: typhl. 315.
Citrus aurantium: typhl. 149, 174, 374, 375.
Clematis vitalba: typhl. 159, 238, 322.
?*Clinopodium* sp.: typhl. 90.
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Convolvulus sp.: typhl. 673, 791, 803, 844.
Convolvulus arvensis: typhl. 743, 767, 900, 923, 939.
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Corylus sp.: typhl. 245, 511, 691, 884.

- Corylus avellana*: typhl. 28, 39, 93, 112, 186, 189, 227, 272, 275, 282, 286, 289, 290, 303, 326, 337, 357, 399, 401, 403, 414, 418, 449, 491, 511, 577, 598, 618, 653, 657, 674, 675, 676, 677, 677 bis, 678, 682, 702, 714, 718, 735, 739, 740, 740 bis, 882.
- Corylus maxima*: typhl. 676.
- Cotinus coggygria* (= *Rhus cotinus*): typhl. 308, 363, 417, 466.
- Cotoneaster horizontalis*: typhl. 473.
- Crataegus monogyna*: typhl. 6, 350, 405, 408 bis, 430, 489, 497, 508, 525.
- Crataegus ?monogyna*: typhl. 661.
- Crataegus ?oxyacantha* (= *monogyna*): typhl. 245.
- Crepis conyzifolia grandiflora*: typhl. 247.
- Crepis virens* (= *capillaris*): typhl. 152, 439.
- Cucurbita pepo*: typhl. 261, 410 bis, 413, 857 bis.
- Cupressus sempervirens*: typhl. 314, 316, 327, 351, 422 ter, 528.
- Cydonia vulgaris* (= *oblonga*): typhl. 1, 363.
- Cynara scolymus*: typhl. 374.
- Cynodon* sp.: typhl. 219, 365, 528 bis, 601, 686.
- Cynodon dactylon*: typhl. 137, 248, 271, 361, 437, 506, 507, 522, 528 bis, 597, 688, 689, 690, 798, 802, 910.
- Cynosurus echinatus*: typhl. 846 ter.
- Cyperaceae: typhl. 11, 324, 357, 500, 670 bis.
- Cyperus longus*: typhl. 164.
- Dactylis* sp.: typhl. 50, 439.
- Dactylis glomerata*: typhl. 265, 292, 333, 350, 362, 475, 512, 516, 678, 683, 690, 743, 912.
- Dalia* sp.: typhl. 780.
- Daucus carota*: typhl. 320.
- Daucus carota gingidium* (= *Daucus maritimus*): typhl. 182.
- Deschampsia cespitosa*: typhl. 265, 610.
- ?*Deschampsia cespitosa*: typhl. 545.
- Deschampsia flexuosa*: typhl. 496, 535.
- Dicotyledons: typhl. 743.
- Digitaria* sp.: typhl. 828.
- Digitaria* (= *Panicum*) *sanguinalis*: typhl. 342, 365, 528 bis, 828, 948.
- Diospyros kaki geopersicum*: typhl. 927.
- Dorycnium suffruticosum* (= *pentaphyllum*): typhl. 504, 507, 541.
- Dryas octopetala*: typhl. 247, 265, 569.
- Dryopteris* (= *Nephrodium* = *Polystichum* = *Pteris*) *filix-mas*: typhl. 216, 333, 365, 405, 422, 428, 473, 488, 490, 527 bis.
- Echinochloa* sp.: typhl. 828.
- Echinochloa* (= *Panicum*) *crus-galli*: typhl. 207, 261, 376, 403, 408, 410 bis, 415, 438, 467, 476, 568, 633 bis, 688, 690, 816, 828, 939, 948.
- Eleusine indica*: typhl. 568.
- Equisetum maximum* (= *telmateia*): typhl. 220.
- Erica arborea*: typhl. 163, 333, 408 bis, 421, 428, 430.

- Erica ?arborea*: typhl. 480.
Erica scoparia: typhl. 408 bis.
Eucalyptus sp.: typhl. 727.
Eucalyptus globulus: typhl. 887.
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Festuca sp.: typhl. 219, 307, 314, 333, 365, 388, 405, 421, 422, 439, 441, 459, 477, 478, 482, 488, 490, 491, 506, 515, 519, 521, 527 bis, 547, 550, 566, 684.
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Festuca arundinacea: typhl. 287.
Festuca elatior: typhl. 387, 408 bis, 512.
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Hedera sp.: typhl. 780.

Hedera helix: typhl. 592.

Helianthemum spp.: typhl. 519.

Helianthemum canum alpestre: typhl. 519.

Helianthemum chamaecistus (vulgaris): typhl. 247, 265.

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Helianthemum fumana: typhl. 483 bis.

Helianthemum grandiflorum: typhl. 521.

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Helichrysum italicum: typhl. 163.

Helichrysum italicum microphyllum: typhl. 440, 488, 490, 492.

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Hieracium pilosella: typhl. 240, 253, 315, 422, 428.

Hieracium prenanthoides: typhl. 156, 215.

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Hordeum murinum: typhl. 383 bis, 845.

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?*Hypericum* sp.: typhl. 63.

Hypericum androsaemum: typhl. 490, 492.

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- Hypericum perforatum*: typhl. 248, 251, 333, 336, 342, 356, 480, 525, 527 bis, 749.
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Hypochoeris robertia (= *Robertia taraxacoides*): typhl. 489.
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? *Nepeta cataria*: typhl. 544.
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Parietaria officinalis: typhl. 65, 178, 182, 191, 210, 216, 218, 273, 279, 326, 336, 368, 381, 384, 386, 387, 389, 392, 423, 426, 427, 479, 533, 573, 683, 912.
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- Pinus laricio*: typhl. 796, 797.
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- Prunella vulgaris*: typhl. 109, 152, 188, 222, 285, 286, 289, 347, 414, 416, 422, 473, 476, 502, 506, 516, 525, 546, 548, 564, 738.
- Prunella vulgaris typica*: typhl. 473.
- Prunus* sp.: typhl. 662.
- Prunus amygdalus*: see *Prunus dulcis*.
- Prunus armeniaca*: typhl. 371.
- Prunus avium*: typhl. 65, 694, 700.
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- Prunus communis*: see *Prunus dulcis*.
- Prunus domestica*: typhl. 03, 29, 168, 314, 315, 700.
- Prunus dulcis* (= *amygdalus* = *communis*): typhl. 103, 107, 124, 125, 261, 287, 318, 325, 371, 381, 385, 917.
- Prunus laurocerasus*: typhl. 868.
- Prunus padus*: typhl. 881.
- Prunus persica*: typhl. 51, 112, 150, 261, 296, 314, 331, 442.
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- Prunus prostrata*: typhl. 405.
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- Pteridium* sp. (= *Filix* = *Pteris*): typhl. 346 bis.
- Pteridium aquilinum* (= *Pteris aquilina*): typhl. 163, 320, 408 bis, 476.
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- Pteris aquilina*: see *Pteridium aquilinum*.
- Pteris filix-mas*: see *Dryopteris filix-mas*.
- Pulicaria dysenterica*: typhl. 316, 322, 329, 353, 359, 361, 372, 410 bis, 422 bis, 433, 506, 507, 527 bis, 800.
- Pyrus communis*: typhl. 293, 296, 410 bis.
- Quercus* sp.: typhl. 14, 17, 47, 54, 116, 272, 299, 535, 823.
- Quercus aegylops* (= *macrolepis*): typhl. 509, 511, 514.
- Quercus cerris*: typhl. 62, 66, 69, 107, 108, 146, 180, 184, 205, 474, 475, 480, 495, 526, 529, 616, 618, 627, 758, 880.
- Quercus coccifera* (= *pseudoccinea*): typhl. 453, 488.
- Quercus ilex*: typhl. 202, 333, 390, 392, 395, 429, 430, 451, 463, 480, 488, 489, 754, 760, 836, 844 bis, 884, 890, 891, 892, 894, 895.
- Quercus lanuginosa*: see *Q. pubescens*.
- Quercus pedunculata*: see *Q. robur*.
- Quercus petraea* (= *sessiliflora*): typhl. 202, 212, 274, 307, 349, 367, 475, 478, 480, 756.
- Quercus pseudococcinea*: see *Q. coccifera*.
- Quercus pubescens* (= *lanuginosa*): typhl. 319, 322, 352, 354, 381, 382, 401, 421, 446, 488, 493, 511, 514, 521, 526, 529, 590, 616, 618, 627, 679, 760.
- Quercus robur* (= *pedunculata*): typhl. 62, 64, 66, 69, 71, 91, 120, 121, 122, 127, 142, 151, 184, 186, 190, 192, 199, 266, 289, 306, 342, 357, 400, 401, 451, 485, 497, 499, 500, 521, 631, 633, 661, 924.
- Quercus sessiliflora*: see *Q. petraea*.
- Quercus ?sessiliflora* (= *petraea*): typhl. 631.

- Quercus suber*: typhl. 430, 488, 893, 897.
Ranunculus sp.: typhl. 200, 235.
Ranunculus acer (= *acris*): typhl. 152.
Ranunculus montanus: typhl. 287.
Ranunculus repens: typhl. 109.
Reichardia picroides: typhl. 384.
Rhamnus sp. (*catharticus*): typhl. 566.
Rhamnus frangula: see *Frangula alnus*.
Rhinanthus sp.: typhl. 519.
Rhinanthus crystagalli minor: typhl. 247.
Rhododendron spp.: typhl. 654, 655, 656, 659, 719, 874, 951.
Rhododendron griersonianum: typhl. 660.
Rhododendron ?*maximum*: typhl. 874.
Rhus cotinus: see *Cotinus coggygia*.
Ricinus communis: typhl. 383.
Robertia taraxacoides: see *Hypochoeris robertia*.
Robinia sp.: typhl. 859 bis.
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Rosa ?*canina*: typhl. 171, 319, 460.
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Ponza (LT): typhl. 578.
Roma (RM): typhl. 727.
San Martino al Cimino (VT): typhl. 677.
Santo Stefano (island of) (Ventotene, LT): typhl. 578.
Terminillo (Rieti, RI): typhl. 611.

Ventotene (LT): typhl. 578.

Volsini mountains (VT): typhl. 476.

Zannone (island of) (Ponza, LT): typhl. 578.

Liguria

Albenga (SV): typhl. 964.

Apricale (IM): typhl. 684.

Balestrino (SV): typhl. 727.

Bardinetto (SV): typhl. 505.

Bignone (mount) (Sanremo, IM): typhl. 422.

Bocca di Magra (Ameglia, SP): typhl. 647.

Bracco (SP): see Passo di Bracco.

Calizzano (SV): typhl. 289.

Capo Cervo (Cervo, IM): typhl. 397.

Carpe (Toirano, SV): typhl. 423, 504.

Chiusavecchia (IM): typhl. 704.

Colle del Melogno (Calizzano, SV): typhl. 289, 292.

Colle del Melogno (Magliolo, SV): typhl. 292.

Deiva Marina (SP): typhl. 161, 162.

Diano Marina (IM): typhl. 397.

Finale Pia (Finale Ligure, SV): typhl. 541.

Finale Ligure (SV): typhl. 289.

Finalpia (SV): see Finale Pia.

Genoa (GE): typhl. 203.

Giogo di Toirano (Toirano, SV): typhl. 424.

Imperia (IM): typhl. 887.

Isolabona (IM): typhl. 464.

La Mortola (Ventimiglia, IM): typhl. 422 bis, 422 ter.

Manarola (Riomaggiore, SP): typhl. 165.

Molini di Triora (IM): typhl. 463.

Mortola (IM): see La Mortola.

Pantasina di Vasia (Vasia, IM): typhl. 703.

Passo di Bracco (SP): typhl. 163.

Passo di Tegli (Molini di Triora, IM): typhl. 419, 420, 462.

Pigna (IM): typhl. 463.

Pontedecimo (Genoa, GE): typhl. 636.

Rezzo (IM): typhl. 417, 418.

Riomaggiore (SP): typhl. 164.

San Giuliano (Genoa, GE): typhl. 636.

San Romolo (Sanremo, IM): typhl. 421.

Sanremo (IM): typhl. 273, 646, 673, 683.

Sarzana (SP): typhl. 185.

Staglieno (Genoa, GE): typhl. 202.

Ventimiglia (IM): typhl. 645, 922 bis.

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- Bizzozzero (Varese, VA): typhl. 296.
- Breno (BS): typhl. 546.
- Caronno Varesino (VA): typhl. 296.
- Cigole (BS): typhl. 935.
- Copiano (PV): typhl. 494.
- Goito (MN): typhl. 261, 309, 310.
- Lenno (CO): typhl. 875.
- Livigno (SO): typhl. 722.
- Manerbio (BS): typhl. 935.
- Milan (MI): typhl. 291.
- Nuvolento (BS): typhl. 934.
- Passo del Tonale (Ponte di Legno, BS): typhl. 547, 548.
- Pavia (PV): typhl. 245, 494.
- Ponte di Legno (BS): typhl. 547, 548.
- Rovescala (PV): typhl. 650, 670, 672, 746, 937.
- Sacca (Goito, MN): typhl. 291 bis.
- San Rocco al Porto (LO): typhl. 746.
- Santa Maria della Versa (PV): typhl. 579, 650.
- Traona (SO): typhl. 951 bis.
- Tremezzo (CO): typhl. 874, 950, 951.
- Villa Olmo (Como, CO): typhl. 876, 877, 949.

Marche

- Mercatino Conca (PU): typhl. 825.

Molise

- Carovilli (IS): typhl. 727.

Piedmont

- Acceglio (CN): typhl. 484.
- Alba (CN): typhl. 923, 938, 943, 956.
- Almese (TO): typhl. 700, 701.
- Alpignano (TO): typhl. 340.
- Alpinia (Stresa, VB): typhl. 458 bis, 473.
- Arignano (TO): typhl. 304.
- Asti (AT): typhl. 242 bis.
- Baldissero Canavese (TO): typhl. 301.
- Barbaresco (CN): typhl. 939, 952, 970.
- Bardonecchia (TO): typhl. 885.
- Barolo (CN): typhl. 814, 840.
- Barone Canavese (TO): typhl. 151, 186, 192, 193, 200, 209, 219, 234, 254, 257, 264, 267, 270, 282, 472.
- Beinasco (TO): typhl. 599, 855.
- Belmonte (TO): see San Colombano Belmonte
- Bessolo (Scarmagno, TO): typhl. 365.
- Bibiana (TO): typhl. 592.

- Biella (BI): typhl. 659, 897.
Borgo d'Ale (VC): typhl. 960.
Bosconero (TO): typhl. 810.
Bricherasio (TO): typhl. 831.
Bruino (TO): typhl. 95.
Bruschi (Cantoira, TO): typhl. 152.
Bussoleno (TO): typhl. 1, 90, 97, 103, 119, 124, 125, 157, 237, 246, 252, 274, 341, 679.
Caluso (TO): typhl. 001, 01, 02, 03, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 25, 27, 28, 29, 31, 37, 44, 45, 46, 47, 48, 49, 50, 51, 52, 58, 59, 60, 61, 64, 70, 71, 72, 73, 75, 78, 79, 80, 82, 83, 84, 85, 86, 87, 92, 96, 98, 101, 109, 110, 111, 112, 117, 118, 120, 121, 123, 128, 137, 138, 141, 142, 143, 150, 160, 167, 168, 187, 194, 199, 201, 208, 220, 225, 226, 229, 230, 232, 233, 234, 241, 243, 258, 264, 267, 276, 282, 346, 378, 379, 482, 784, 785, 793, 946.
Cameri (NO): typhl. 494.
Candia Canavese (TO): typhl. 120, 693, 791, 792, 835, 945.
Cantoira (TO): typhl. 132, 133, 152, 153, 218.
Capriata d'Orba (AL): typhl. 619, 621.
Carema (TO): typhl. 766, 921.
Carignano (TO): typhl. 113, 114, 115, 250, 251, 591, 605, 690, 711, 712, 728, 732, 733, 743, 750, 853.
Carmagnola (TO): typhl. 113, 114, 115.
Casal Cermelli (AL): typhl. 696, 751, 757, 768, 790, 811.
Casale Monferrato (AL): typhl. 688.
Caselette (TO): typhl. 14, 15, 16, 17, 74, 266, 439.
Castel Boglione (AT): typhl. 596.
Castel del Bosco (Roure, TO): typhl. 609 bis.
Castellazzo Bormida (AL): typhl. 758, 763, 768, 810 bis, 833, 902.
Cavaglià (BI): typhl. 674.
Ceresole Reale (TO): typhl. 285, 624, 625, 626.
Cesana (TO): typhl. 457, 460, 614.
Ceva (CN): typhl. 857.
Chialamberto (TO): typhl. 217, 607.
Chianocco (TO): typhl. 603, 754, 760, 761, 783.
Chieri (TO): typhl. 577, 692, 731, 883, 925, 941, 957.
Chiomonte (TO): typhl. 540, 641.
Colla di Valcasotto (Garessio, CN): typhl. 730, 735, 736, 738.
Colle del Lys (Rubiana, TO): typhl. 253.
Colle del Moncenisio (Moncenisio, TO): typhl. 569, 589.
Colle della Maddalena (Moncalieri, TO): typhl. 890.
Colle delle Finestre (Fenestrelle, TO): typhl. 503, 531.
Colle delle Finestre (Usseaux, TO): typhl. 126, 502, 531.
Colle di San Bernardo (Garessio, TO): typhl. 749.
Colle di Tenda (Limone Piemonte, CN): typhl. 749.
Colletta di Giaveno (Giaveno, TO): typhl. 702.

Condove (TO): typhl. 18, 19, 20, 38, 611.
Cortemilia (CN): typhl. 290.
Costigliole (AT): typhl. 649.
Crissolo (CN): typhl. 882.
Cumiana (TO): typhl. 414.
Cuorgnè (TO): typhl. 717.
Exilles (TO): typhl. 125, 159, 238, 274.
Fara Novarese (NO): typhl. 958.
Felizzano (AL): typhl. 787.
Fenestrelle (TO): typhl. 608, 609.
Fiano (TO): typhl. 306, 535, 536.
Fontanetto Po (VC): typhl. 689.
Foresto (Bussoleno, TO): typhl. 604.
Forno Alpi Graie (Groscavallo, TO): typhl. 34, 35, 129, 130, 155, 156, 215, 216, 249, 607.
Forno di Coazze (Coazze, TO): typhl. 598.
Frais (Chiomonte, TO): typhl. 294.
Francavilla Bisio (AL): typhl. 615, 617.
Funghera (Germagnano, TO): typhl. 36.
Gassino Torinese (TO): typhl. 698.
Gattinara (VC): typhl. 633.
Germagnano (TO): typhl. 135.
Ghislarengo (VC): typhl. 458.
Givoletto (TO): typhl. 307.
Gravere (TO): typhl. 159.
Groscavallo (TO): typhl. 628.
Grugliasco (TO): typhl. 873.
La Cassa (TO): typhl. 306, 307.
La Loggia (TO): typhl. 712, 733, 854.
La Morra (CN): typhl. 813, 840.
Lagnasco (CN): typhl. 630.
Lanzo (TO): typhl. 136, 305.
Locana (TO): typhl. 347, 718.
Meana di Susa (TO): typhl. 22, 23.
Melezet dam (Bardonecchia, TO): typhl. 313.
Melle (CN): typhl. 782.
Moncalieri (TO): typhl. 380.
Moncalvo (AT): typhl. 602 bis.
Monte Madonna delle Finestre (Entraque, CN): typhl. 749.
Neive (CN): typhl. 954.
Nizza Monferrato (AT): typhl. 259.
Noasca (TO): typhl. 285, 625.
Novara (NO): typhl. 398.
Orbassano (TO): typhl. 745.

- Ormea (CN): typhl. 416, 461.
Palanfrè (Vernante, TO): typhl. 749.
Pallanza (Verbania, VB): typhl. 660.
Pavone Canavese (TO): typhl. 681.
Perosa Argentina (TO): typhl. 610, 926.
Pessinetto (TO): typhl. 134.
Pialpetta (Groscauallo, TO): typhl. 131, 154, 607, 629.
Pinerolo (TO): typhl. 587, 593.
Pino Torinese (TO): typhl. 221, 222, 231, 244, 248, 342, 891, 894.
Piossasco (TO): typhl. 744.
Piverone (TO): typhl. 743, 767.
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Portanova (Casal Cermelli, AL): typhl. 678, 686, 751, 757, 903.
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Predosa (AL): typhl. 597, 601, 606, 616, 618, 627, 637, 638, 639, 640, 642, 648, 671, 678, 686, 687, 697, 705, 708, 709, 713, 714, 715, 725, 734, 741, 759, 763, 764, 769, 788, 789, 811 bis, 828, 829, 834, 838, 841, 850, 851, 852, 857 bis, 857 ter, 858, 879, 880, 886, 898, 899, 900, 901, 904, 906, 907, 907 bis, 916, 922, 955.
Prese (Ceresole Reale, TO): typhl. 624.
Quarto d'Asti (AT): typhl. 786, 786 bis.
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Reaglie (Turin, TO): typhl. 302.
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Roddino (CN): typhl. 594.
Romano Canavese (TO): typhl. 856, 947.
Rosone (Locana, TO): typhl. 285.
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Salto (Cuorgnè, TO): typhl. 839.
San Benigno Canavese (TO): typhl. 716.
San Colombano Belmonte (TO): typhl. 717.
San Giacomo (Locana, TO): typhl. 718.
San Giorio (TO): typhl. 97, 103, 119, 124, 125, 157, 211, 212, 236, 246, 274, 438, 439 bis, 456, 459, 483, 483 bis, 496, 574, 604 bis, 613, 639 bis, 680, 762.

- San Giuseppe (Mompantero, TO): typhl. 581, 583, 584, 585, 588.
San Michele Mondovì (CN): typhl. 740 bis.
San Paolo Cervo (BI): typhl. 139, 166, 227, 228, 235.
Santena (TO): typhl. 53, 207, 251.
Sauze d'Oulx (TO): typhl. 623.
Sestriere (TO): typhl. 544, 545, 663.
Sezzadio (AL): typhl. 636.
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Silvano d'Orba (AL): typhl. 620.
Solero (AL): typhl. 787.
Spineto (Castellamonte, TO): typhl. 809.
Staffarda (Revello, CN): typhl. 881.
Stazzano (AL): typhl. 636.
Strambino (TO): typhl. 905.
Stupinigi (Nichelino, TO): typhl. 39, 91, 127, 188, 189, 190, 191, 195, 196, 197, 198, 260, 271, 272, 400, 401, 403, 415, 600, 677 bis, 830.
Superga (Turin, TO): typhl. 380 bis, 521, 892.
Susa (TO): typhl. 2, 3, 21, 24, 30, 40, 41, 88, 89, 99, 104, 119, 158, 236, 603, 604.
Ternavasso (Poirino, TO): typhl. 54, 55, 56, 57, 62, 63, 66, 67, 68, 69, 76, 77, 106 bis, 116, 123 bis, 151 bis, 170 bis, 191 bis, 205, 206, 300.
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Valcasotto (Pamparato, CN): typhl. 729, 737, 739, 740, 749.
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Valle di Piantonetto (TO): typhl. 346 bis.
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Vercelli (VC): typhl. 494, 568, 633.
Vezza d'Alba (CN): typhl. 924, 940.
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Villar Perosa (TO): typhl. 240, 280, 643.
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- Alghero (SS): typhl. 580, 611, 673 bis, 753.
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La Maddalena (Capoterra, CA): typhl. 375.
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Sini (OR): typhl. 753.
Sinnai (CA): typhl. 325, 444 bis.
Solanas (Sinnai, CA): typhl. 846, 846 bis, 846 ter.
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Tempio Pausania (OT): typhl. 410 bis, 411.
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Tottubella di Rumanedda (Sassari, SS): typhl. 413.
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Villorba (TV): typhl. 634, 859 bis.

INSTRUCTIONS FOR AUTHORS

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Fig. 1. *Parabathyscia (P.) fiorii* Capra, holotype ♂: habitat.

Figs. 2-5. *Parabathyscia (P.) fiorii* Capra (♂; Firenze: Fiesole): 2 - aedeagus, dorsal view; 3 - idem, lateral view; 4 - apex of right paramere; 5 - antenna.

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Binaghi G., 1974 - Il *Troglophloeus siculus* Rey nel Lazio. Ecologia e nuovi caratteri diagnostici (Coleoptera Staphylinidae). Bollettino della Società entomologica italiana, 106 (3-4): 49-53.

Binaghi G., 1951 - Coleotteri d'Italia. Vita, ambienti, utilità, danni, mezzi di lotta. Briano, Genova, 210 pp.

Mohr K. H., 1966 - 88. Familie: Chrysomelidae, pp. 95-299. In: H. Freude, K. W. Harde & G. A. Lohse (eds.). Die Käfer Mitteleuropas, 9, Goecke & Evers, Krefeld.

Ciceroni A., Puthz V. & Zanetti A., 1995 - Coleoptera Polyphaga III (Staphylinidae), 65 pp. In: A. Minelli, S. Ruffo & S. La Posta (eds.). Checklist delle specie della fauna italiana, 48, Calderini, Bologna.

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These should summarise the information in the following order: Species (Family Order); - Nomenclatural reference: the publication on which the interpretation of the taxon is based; - Context: the reason for the indication; - Findings: locality, date, collector, determiner, collection in which the specimens are housed, any information on the habitat; - Observations: general distribution of the taxon based on the indications of the chorological category to which the specimen belongs, known distribution in Italy with abbreviated bibliographical references, other complementary observations; author and address.

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